



THE CARLETON STUDENT ENGINEERING NEWSPAPER

THE IRON TIMES

THE MERRY IRON TIMES

MYCSES.CA/PUBLICATIONS/IRONTIMES

DECEMBER 2017

'Twas the Night Before Exams



Noah "Soundcloud" Pacheco
- AERO DIV -

The coffee was steeped,
Though went stale quite fast
As students were calculating
Grades needed to pass.

The notes were a mess.
The stress had amassed.
If only you'd gone to
That one stupid class!

But all of a sudden,
A thought grew, inside.
"If we all fail this class,
then the curve's what we'll ride!"

The motion was swift,
Like a winter's wind goes.
"The students will strike!
'Cause studying blows!"

To the pinned post on Flightsuits!
To the mid of the Quad!
The rallying's started!
We'll fight off the guard!

On 'SenPie,' on 'Spoon Slut,'
On 'Safe Space,' on 'Sound Cloud,'
On 'Tintin,' on 'Teabag,'
On 'Baby Bus,' on 'Black Out!'

Until the next morning,
The riot raged on.
The first exams came,
But the students stayed strong.

After finals were finished,
And the damage was done,
The students began thinking,
"What have we done..."

Mob mentality gone,
They all went home for break.
Ignoring what was probably
Their biggest mistake.

When they returned back to school,
The atmosphere tense,
The Central was refreshed
In constant suspense.

But finally they came.
The grades had been posted.
The students, their hearts,
Their dreams were all roasted.

The failure was huge.
The school laughed and sneered.
More tuition from all,
And all, another year!

'Twas the night before finals
And all through C-Eng...
Not a student was sleeping,
Not bedside nor bench.

The teachers were home.
Taught them all they could offer.
Asleep with a grin,
Awaiting the slaughter.

The Aeros were angsty,
The Mechs had gone mental.
The Civils and SREEs
Hoped their profs would be gentle.

The Sysies were psycho,
The Elecs brought their lube.
The Biomed's bawled.
For what else could they do?

READ ON, I DARE YOU

BLADE RUNNER 2049
REVIEW
PAGE 5

5 TIPS FOR SURVIVING
THE HOLIDAYS
PAGE 7

CENG SPEAKS
PAGES 8-11

GALLERY
PAGES 12-13

EWB SOCCER TOURNAY
PAGE 14

CSES UPDATE
PAGE 17

DISTRACTIONS
PAGE 18-19

AND MUCH MORE!



WARNING:

This publication may contain offensive material. It should not be read by anyone who is easily offended. All opinions expressed within are solely those of the contributors; they do not reflect the views of the Carleton Student Engineering Society. This paper is purely satirical in nature and is not intended to be malicious in any matter.

If you wish to express your views on the content within, please email us at irontimes@cses.carleton.ca.



EDITORIALS

WHAT A GREAT START TO THE SEASON!

Festive From the Desk of the Editor



Gabriel Karam
- CIVE II -

THE HOLIDAYS IN REVIEW

As a little kid, I always loved the month of December. At this point in the year, my birthday had just passed (presents) and Christmas was waiting around the corner (more presents). Not only this, but snow was coming, meaning sledding, skating and all those fun winter activities. And if one were lucky enough, there would be a huge snowstorm and school would be cancelled! Now all these things were great but, by and large, my absolute favourite time was just around Christmas, where the whole family would meet at my uncle's house for Christmas dinner. My relatives were scattered between Ottawa and Toronto, so this was often the one time a year I would see them all together (to be honest, it was sometimes difficult to tell which uncle was which after a whole year). Anyways, these dinners were great and festive and left you feeling full, satisfied and happy.

I'm sure most of you are used to this manner of holiday gathering, and hopefully you can relate when I say that these kinds of things seem to get rarer and rarer as we age. This probably follows with the fact that the holiday magic fades as we grow older (it all goes downhill

from the moment some ass tells you Santa isn't real). People slowly grow older, no longer wish to travel in the winter or have the energy to throw a full-blown shebang. The holidays eventually turn into smaller events, at least family-wise. But this might just be natural, as most things people get more and more involved with friends rather than family as they age grow older (although family is by no means less important). And then as people reach a certain age, they have kids of their own and the cycle restarts.

But as the centuries have progressed, people are getting married later and later, and are having fewer children. Especially in developed countries, getting married around age 30 and having one or two children (or none at all) is the norm. This is quite different from even a generation ago, where it was common to be married early and have many children. With the gap between one generation and the next becoming progressively wider, it is certainly becoming more difficult to carry on traditions.

I believe it is important to recognize the trends in life, and that it might even be a rarity to have large holiday celebrations by the time our generation is passé. However, I have so many good memories from these events that I would do my utmost to have them continue forever, and I sincerely hope you all feel the same way.



A Beginner's Guide to: DEMONIC PRESENT WRAPPING

Ask yourself these questions:

Is there a practical joker in your life this holiday season? Is there someone who may sometimes annoy you with their antics? Do you just like to watch the world burn?

If you answered "yes" to any of these questions, this tutorial might just be for you.

Sit tight, and imma learn you about the most demonic ways to wrap a present. This is not just casually wrapping a something in a few layers duct tape; it is an art form in and of itself. It is incredibly satisfying to wrap, as well as a true pain to the one who has to open it (much to the amusement of anyone else present). Following are tips on how to improve on the art of wrapping a gift in many layers.

FOR STARTERS, the gift must be aesthetically pleasing on the surface. No matter how many layers you may create, the outside must always have the impression of being nicely wrapped. This lures your prey into false sense of security, and you can watch as they are slowly dragged into a hell of paper and adhesives.

SECONDLY, it is important to vary the wrappings. Wrapping paper or duct tape over and over can become boring; this is especially important if there is a crowd being entertained. Try to nest boxes inside one another, and use un-cuttable materials

such as metal wire.

THIRD, get creative. For example, I once gave someone a present that was a cardboard box containing a safe and ~200 different keys. Or four different boxes, when only one actually contained a present. It's more fun if you vary your approach!

FINALLY, always do something unexpected. Once your victim gets to the bottom of the present, leave them an IOU instead of a gift, or reveal that their gift was really hidden in one of the layers they ripped off five minutes ago. No matter what you do, always make sure they never expect what's coming next.

If you keep in mind these four tips, you should be set to create a diabolical masterpiece that should entertain, torture and please all at the same time (a 3-in-1, as they say). Who knows, you might start a tradition!



EDITORIALS

CYCLECEPTION... A CYCLE IN A CYCLE THAT GOES AROUND ANOTHER CYCLE?



Cassidy "Next" Lang
- AERO C III -



Thinking About *how to strike back against negativity*

What do I do if I don't like myself?

It's a good question. It's one a lot of us ask ourselves every day and one that I certainly asked myself pretty frequently last year. But what changed between now and then? Well, there's a complicated answer... and also a simple one. I broke the cycle.

Honestly, it doesn't really matter which cycle you break. Break any cycle. The world is cycle-ception, so when you break one, you've set the breaking of them all in motion. Sometimes, all it takes is one seemingly insignificant life change to change your entire world view.

Isaac Lidsky, a corporate speaker, author, and entrepreneur who played Weasel on *Saved by the Bell: The New Class*, believes that one's reality is made up of "three rings" of perception. The innermost ring is our perception

of ourselves (i.e. ego) and the outermost ring is how we are perceived by others.

But the most important ring of this model--the middle one--is meant to represent how we imagine others are perceiving us. More often than not, this does not align with the perception of the outermost ring due to self-limiting assumptions that we place on ourselves without even recognizing we're doing it. This is problematic.

We do ourselves the most harm by projecting our vanities and insecurities onto others and "by doing so, we make them real and we lend them the credibility of

external validation," according to Lidsky.

The first step is recognition and acknowledgement. This has been my hang-up in the past. It just seemed so obvious to me that everyone had exactly the opinions of me that I expected them to have. After all, why would I lie to myself? As it turns out, unfortunately, yourself doesn't always have your own best interests at heart.

The old Cherokee proverb about the battle of the two wolves never fails to articulate what I consider to be the most important aspect of self-help--feeding the right wolf, so to speak. If you have never read or even heard of the Cherokee wolf story and you suspect that you may have trouble "feeding the right wolf," I would strongly suggest that you Google it right now and read up.

A particularly woke article by one Dean Yeong (and the first hit on Google, to boot) puts it well by saying "the fight between two wolves is eternal." You will never banish the negativity that hangs out in your head. That's a shitty thought. But do you know what you can do? You can challenge it to 1v1 you irl.

Oliver Burkeman, a journalist for *The Guardian*, actually wrote a book justifying his belief that trying to banish negative thoughts outright is utterly useless. "This idea of motivation is really weird," he says, "because you

want to take some action, but instead of just trying to get yourself to take the action, you tell yourself you have to feel like taking the action."

I have a sneaking suspicion that this type of thinking is the reason I still can't get out of bed on the first alarm. I'm waiting to feel rested when I wake up so that I want to get out of bed at 7 AM. The reality is, I'm never going to feel like getting out of bed at 7 AM, even if I go to bed promptly at 11 PM, which is the "ideal situation."

The host of the *Art of Charm* podcast, Jordan Harbinger, puts it simply and methodically when he advises us to "make a choice as to whether we want to continue with [those] thought[s] and keep that belief system... or whether we want to challenge it and create a new pattern that actually serves us better."

One of the most notorious negative thinking patterns that I've learned to identify from the aforementioned podcast is the theory of "me/always/everything thinking," a term coined by psychologist Martin Seligman. Me/always/everything thinking is characterized by an individual a) blaming themselves for a bad situation (the "me"), b) choosing to believe that situations always go badly because of them (the "always"), and c) and concluding that everything is doomed to go badly for them simply because they are the way they are (the "everything.")

Doesn't that sound ridiculous? That's because it is. It's a falsehood that we tell ourselves in an attempt to justify a bad situation. The best way to break out of this type of thinking is to recognize that you are falling into a trap and cut that sucker right off at self-blame.

And, you know, that's really all it comes down to--making a choice. You wouldn't expect a car to run smoothly if you shoveled gravel into the gas tank, so why would you allow the same toxicity into your mental system? Choose to create a new belief system for yourself. Give yourself a fighting chance.

An old Cherokee told his grandson:

“ My son, there's a battle between *two wolves* inside us all.

One is **Evil.**

It's anger, jealousy, greed, resentment, inferiority, lies and ego.

The other is **Good.**

It's joy, peace, love, hope, humility, kindness, & truth. ”

The boy thought about it, and asked:

“ Grandfather, which wolf wins? ”

The old man quietly replied:

“ The one you feed. ”



COLUMNS

POEMS ARE ALL THE RAGE THESE DAYS



Logan "First Year" MacGillivray
- SOFT III -

Again, the holidays will soon be here,
Bringing to most a sense of joy and cheer.
The ham, the eggnog, the skating and snow,
The fun, hot chocolate and a warm fire's glow.

However, there is one Christmas staple
That will tend to strike fear in most people.
Talking with family can be very hard,
But it can be fun if you have some cards!

A trick taking game will be our first choice,
Winning the hand gives reason to rejoice.
Following the suite of the first card played,
But you might count on partner bringing aide.

The game is Euchre, what a unique name;
Being short and fun is its claim to fame.
With only five cards, you must win three tricks.
If you short suite yourself, you are a dick.

Next on our list, we will be playing Spades.
One card with a partner you're able to trade.
Playing a spade will allow you to win,
Choose how many to take when you begin.

If you go over, a book's what you'll get.
Don't get ten, or you will then find regret.
You can you double your points if you make ten.
And when you reach five hundred, you will win.

Cribbage is another game that is fun,
Where you try to peg until thirty-one.
A pair, a run, or a sum of fifteen,
To find them, you'll need an eye that is keen.



The kitty goes to the dealer that round,
Hit one-twenty-one, a winner is found.
Get no points in a hand- oh well, too bad.
A hand of nineteen is what you just had.

Up next is a card game that might sound cold,
Avoid getting hearts is what you are told.
And you might want to toss that queen of spades,
As she is worth thirteen points in this game.

Get all the points, and send people their doom,
As this is known as Shooting the Moon.
While "race to one-hundred" sounds like a blast,
You will, most of the time, end up in last.

Crazy-Eight-Countdown is one I enjoy.
Trying to discard, you might get annoyed.
Playing a jack, you can skip the next turn,
But when the twos pile on, you'll start to churn,

Play an ace to reverse the direction,
And play your doubles with no objection.
Your magic card will continue to drop,
But pick up you must, if you find you stop.

And then there is President, so much fun.
Try not to be the bum, lest you be done.
Discarding is your goal, to try to be ahead,
And use your joker, so you don't get dead.

In raising order, all cards must be laid,
Just after the bum and president trade.
And while being president is your goal,
The next turn, the bum's position is pole.

**Magic is a game
It has a weird set of rules
I don't even know**

So long as you're not playing Go Fish,
You can play any other game you wish.
From Danish Bastards, to Tractor as well,
And Briscola, and Hockey, they're quite swell.

Rather than doing more work in CREO,
Feel free to come learn some rules in Leos.
The time has come to bid you adieu,
I'll see you again in a year that's new.

COLUMNS



SPOILER ALERT



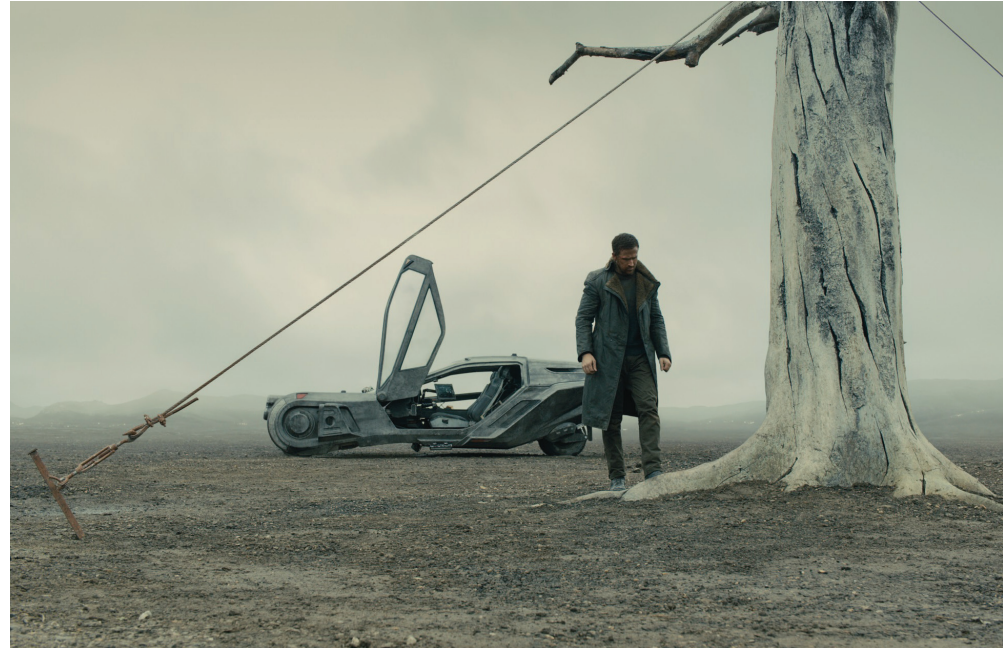
Sam Hassall
- MECH II -

A (late) Blade runner 2049 Review: Compelling, disturbing, and sometimes confusing; but still a triumph.

Warning: May contain spoilers for both Blade Runner films. Read at own risk.

If you had asked me a year ago, I would have told you that trying to make a sequel to

Blade Runner would be a cinematic suicide mission for any director brave enough to try. The original film is so beloved, perfectly flawed and left open-ended, that it would take a miracle to make a worthy sequel. Denis Villeneuve's effort, running at almost 3 hours, is sometimes difficult to follow, rich with beautiful visual design and cinematography, and is a serious attempt at this challenge. It manages to combine intimate personal stories with an eerily realistic vision of our future, one which I believe is more technologically and philosophically relevant to our current world than any other film in recent memory.



Ryan Gosling plays a Replicant, a human being grown in a factory and sold with a pre-determined skillset- and theoretically, a brain only capable of obedience. This is a key part of the film, as replicants were previously banned on earth after bloody mutinies. He is a Blade Runner, tasked with hunting down and killing rogue Replicants, or as one of his first victims describes early in the film, "killing his own kind". The brutal nature of this life is highlighted by the scenes of his routine mental interrogations, some of the best in the film and the most harrowing.

This world of Replicants and Blade Runners is lorded over by Niander Wallace, CEO of Wallace Corp., the primary maker of Replicants in the 2049 world. Jared Leto comes in here using his incredible method acting skill for the role, though as a villain he seems too loosely connected to our main hero. However, I think this is made up for by his incredible portrayal of a man with a God complex, specifically including one scene with a just-finished replicant that will make your skin crawl and your morals spin. He doesn't get much screen time, though, which unfortunately seems to be a common trend in roles

that Jared Leto has intensely prepared for.

In terms of plot, the film shifts from a very personal first act, to a second act filled with a search for answers, to a final third act where K (Gosling's character) selflessly tries to attain redemption. The third act is marred slightly by its weak themes of Revolution, which are sort of forgotten about and abandoned before they become much of anything. This is probably one of the only major sins in the film's writing.

Overall, 2049 manages to be an incredibly stunning visual treat, with solid performances from its cast (albeit with some weak points later in the film) and a plot that, although confusing later in the film, comes back to end on a personal, intimate note. It leaves itself open for deep philosophical interpretation and discussion, and serves as a warning to us humans about the paths we choose to take with technology. Blade Runner 2049, I think, has matched the original and conquered the challenge it strived for. If I must boil this review down to a number, I'd say it's a strong 8 out of 10. It's not perfect, but it comes close, and is definitely worth watching.





COLUMNS

DO YOU THINK SHE CAN DO IT FOR ALL 8 ISSUES?



Rebecca "Swallow" Feddema
- ACSE V -

So, you've almost made it to the end of a whole semester on this ~~godforsaken~~ wonderful campus. You've seen friendships rise, grades fluctuate, and the temperature plummet. Hopefully you have learned how to fit within the delicate balance of your residence floor's ecosystem. And, if you're lucky, you haven't been caught by the Res Fellows during all of your memorable shenanigans. Now, time for the last push of the fall semester.

How are you going to make it through your last month? Well, first thing's first, be quiet in your residence during the exam period. Like, silent. No sound. I don't care if you have no exams, or if you just finished your exams, or you have given up and you are just going to wing your exams, do not make noise. Everyone else in your building is going through the same living hell of studying for exams. They do not need to hear you, and there are actually lengthened quiet hours during exams, so save yourself the trouble and keep quiet. With this in mind, if your neighbours are being too loud, tell your res fellow, or call the RF On-Call number. It's their job to deal with that stuff, not yours.

That's exams, now for the whole going home thing. **BUY YOUR TICKETS EARLY** (in case you were wondering, this is going to be an all-caps-yelling-at-you kind of article). Christmas is the perfect excuse for all of the travelling services to jack up their prices and make you pay through the nose to get yourselves home. So look at tickets now, wheth-



er that is the Greyhound, or Via Rail, or airlines, or finding a sketchy car to share with other poor students. Anything's fine, as long as you can get yourself where you need to go.

While packing to go home, you should also take some things into consideration. Like, all the things you are going to have to bring back to school with you on your Greyhound/train/plane/car. This includes all those appliances your parents buy you because they finally think you're an adult and don't understand how much you just want a non-adult present. And all the cozy clothes you left at home that you now desperately need to survive the treacherous cold of Ottawa. Oh, and all the food that you're too poor to buy for yourself, I'm talking Nutella for days! So leave room in your luggage if you plan on getting back to Ottawa after the holidays.

Finally, take some time for yourself this December. Go skating at Parliament. Buy a fancy Starbucks coffee after you finish an exam. Take time to recuperate after stresses have passed. And this counts while you're at home too. I know you want to visit all of your high school friends, hang out with your family, go to parties, and do ALL the things- but make sure you take some time to veg. You just got out of ex-

ams, you deserve a bit of good old-fashioned boredom.

Residence PSA: Now is also the time to start thinking about applying to be a Residence Fellow yourselves. I know what you might be thinking, "Rebecca, I put my Res Fellow through hell this semester, why would I ever want to endure something like that myself?", but you've got to realize that this is one of those rare situations where the perks outweigh the hardships. When you're a Residence Fellow you get to join a whole host of the most crazy, dedicated, time sacrificing, creative humans you have ever met. There is also the whole perk of having ALL OF YOUR ROOM AND FOOD COSTS

COVERED! Carleton actually has a really great reimbursement program for their residence staff, not like other universities that only cover part of costs. And even if dealing with loud drunken hooligans at all hours of the night is not really your thing, that's not all of what working in residence is... well it's most of it, but definitely not all. And, in my opinion we need more engineers in res. We understand the party hard attitude and we also really prioritize working hard, so it's the best of both worlds! Do yourself a favour and at least look into the res fellow application process. It can be kinda long and tedious, and needs a lot of references, so figure that stuff out sooner rather than later!



COLUMNS

ALL GREAT STORIES COME FROM HARAMBE



Caroline "Life of Pi" Deluce
- ENG PHYS II -

Ah, winter holidays, one of my favourite times of the year. Being the youngest of 7 kids (and the second youngest of 5 step kids), the holidays have always been a little interesting, and very crazy. Many of you may be wondering how to survive family dinners, or what gift to give to that one family member that always says "I don't know what I want," for the entire month of December, or how to sit through another painful viewing of Frosty the Snowman for the eighth time in one day that you can't shut off without hurting your four year old niece's feelings. These are things that I consider myself a pro at, and I'm here to give you some advice on how to make it through the holidays. Here are 5 Holiday "Hacks" to help you have an awesome (and entertaining) winter break.

1. BE TACKY! What better to become undead inside after exams than to decorate EVERYTHING! Wear your ugly sweaters everyday over the break, put tinsel in your hair as a hipster fashion accessory, hang mistletoe over doorways and then proceed to kiss your cat under it. Sing along to Mariah Carey's "All I Want for Christmas" on repeat, and when your parent tells you to turn it off, you tell them to stop being such a Scrooge. The only downside to this is that if your family is not tacky, they may become increasingly annoyed jealous of your overwhelming holiday joy. It makes me wonder why my favourite light up Christmas tree sweater miraculously broke one day...

2. GIVE THE PERFECT GIFT. This is always a hard one. People can generally be broken down into three groups: one being "I would like <insert thing here> please," two being "I'm not sure/anything is fine," and three being "I have everything I need." What I generally do is create a giant group chat, say "What does everyone want for Christmas?" and get responses similar to the three above. Person 1 is the easiest because they are a strong, independent person who don't need no man/woman/other genders under the LGBTQ+ umbrella. Good for you, Person 1, you make my life easy.



CREATING LIFE LONG "MEMORIES" WITH MY NIECE

Person 2 on the other hand is a bit more challenging. The solution? Give them a gift card. They like books? Indigo. They like coffee? Tim's/Starbucks. Sporty dad? Sail. BOOM. DONE! Person 3 is the fun one, and despite popular opinion, they are my favourite type of person to shop for. For Person 3, donate to a charity on their behalf; it's a win/win for everyone involved.

3. GIVE THE PERFECT BUDGET FRIENDLY GIFT. Now, there is a big difference between the perfect gift and the perfect budget friendly gift. One study suggests that the average Canadian spends about \$766 on Christmas alone, and since my rent for the month of December is around \$550, that ain't happening. There are plenty of ways to save money during the holidays. Surprise everyone with a handmade gift such as a mug with a message baked on in Sharpie, Google DIY low expense gifts, or have Hannah Wayne navigate you through the wonderfully confusing site of Pinterest and you'll surely find something awesome (she is a Pinterest god.) Also, why waste money on wrapping paper when you could wrap all your gifts in newspaper?! Preferably the Charlatan. Tell your family that you have decided to go eco-friendly instead of succumbing to the capitalistic way of using wrapping paper.

4. SURVIVING FAMILY GET TOGETHERS. Between dinners and

generally just hanging out, family gatherings can be rather... interesting (and sometimes painful). However, despite how hectic family can be, I've found a few ways to help make it a little less crazy. A relative brings up a taboo subject at dinner? Start talking about how lit and interesting your classes are (even if they're really not--case in point: ECOR 1010.) Conversation is getting kinda boring? Play a board game like Catan with your family and DESTROY THEM. Younger nieces/nephews/siblings running around like a bunch of little monkeys? Sit them down and watch a good old holiday movie (unless it's Frosty the Snowman, I am forever burnt out from that movie.) All in all, as much as family can be crazy, spending time with your kin really is something special. Which brings me to my last point...

5. CREATE MEMORIES. Very rarely will all the Deluces and Holm-eses be in the same place all at once. That's why the holidays are always something special; as much as it's busy, loud, and downright crazy, it's always good to spend time with the fam. Many of our greatest and funniest memories come from the holidays when we're all together. My advice to you is to do something memorable with your family this holiday season, as memories do last forever. By the time my niece is our age, she will have this lovely Christmas photo of us... a memory I will never forget.

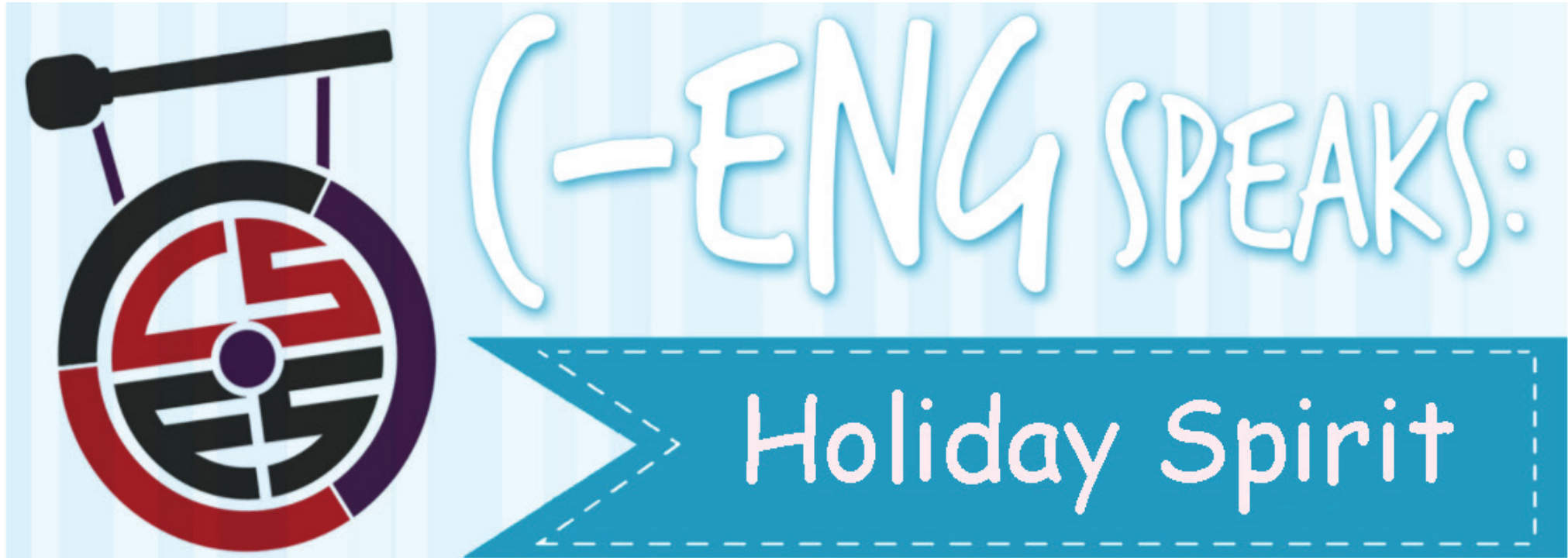


GLORIOUS SWEATER THAT MIRACULOUSLY BROKE...



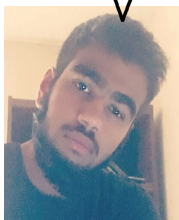
COLUMNS

SOME SURPRISINGLY LEGIT STUFF HERE



“What are your best exam studying tips&tricks?”

Try to understand rather than just memorizing.



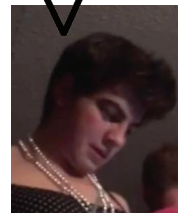
Abitalib Kagalwala
AERO I



Luke Boguski
AERO B III

Coffee. Also PASS Workshops/
Mocks are pretty good too.

Write out To-Do lists, and mark them off as you study and get shit done. This gives you the satisfaction of progress and helps you be organized throughout your study sessions.



Nikita Rudakov
MECH II

Rachael Machnee
AERO A IV



Find the time that suits you best. For some, that may be 2am. We won't judge.



Andy Curtis
AERO C II

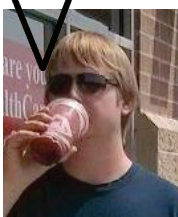
Wake up early and get moving as soon as you wake up.

Aaryan Shameem
AERO D II



FREE BODY DIAGRAMS EVERYWHERE!!!
(Part Marks).

Try and do one of each problem from the chapters on a special exam study sheet. Also make sure to reward yourself with a nice drink or snack so it feels like you're working for something.



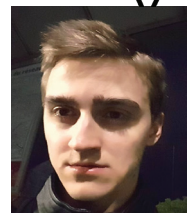
Connor Logie
AERO B III



Jonathan Strong
CIVE III

Start Studying well before the exam period.

Plan ahead, as the booze money has to last all the way until your last exam.



Konstantin Fedotov
ELEC II

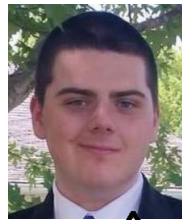
COLUMNS



Keely Gibb
AERO D II

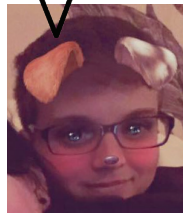
Try to catch up on sleep a few weeks before exams start so you can study effectively.

Seth Thompson
ELEC II



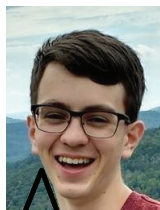
Try the problems you got wrong again, and the ones you did get right twice.

As my good pal Cameron Euler once said, "You can retake a course, but you can't retake a party."



Nicholas Cantarutti
AERO D II

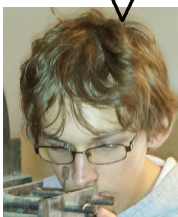
Practice questions.



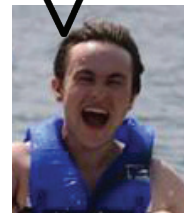
Dublin
AERO C II

Get a Calendar and rough out when you'll start studying for each exam- try and stagger each course so that you aren't studying more than 3 at a time.

Will Brooks
AERO I



NOT ASKING YOUR FRIEND TO TEACH YOU THE WHOLE COURSE THE DAY BEFORE THE EXAM @GABE



Sam Hassall
MECH II

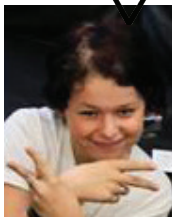
Take the time to write out all the material you need to know first. Then cut the WiFi until you feel ready!

Dean Zaibak
CIVE I

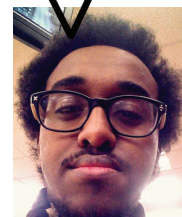


Don't study with friends. Study in a populated area and later on revise with friends. And walk into your exam at the last moment, seeing everyone else freak out will only freak you out.

Jamie Hopkins
IMD II



Do the old tests, and pray the prof's too lazy to change it.



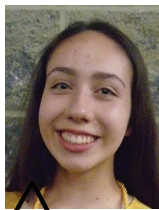
Moe Qalinle
ENG PHYS I

"Where is your favorite place to be during winter break?"

Denise Mayo
AERO C II



In my bed, asleep.



Route 66, Eichenwalde, Hanamura, King's Row...

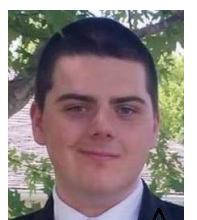


Home is where the heart is, so right here, at Leo's.

Yet to discover, hopefully with the help of some friends I'll find a place this year. Bort!



Home haha.



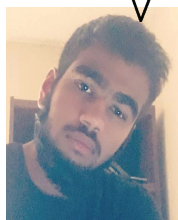
In a bed.



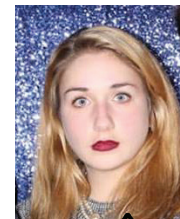
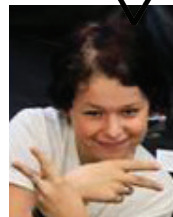
COLUMNS

DON'T MOPE, HIT THE SLOPES!

Tim Hortons.



Just after you get in from the cold. With a warm blanket around you and hot chocolate in your hand.

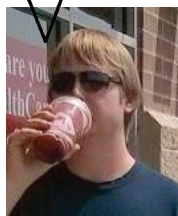


Skiing in the mountains or in front of a fireplace at home.

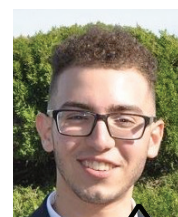
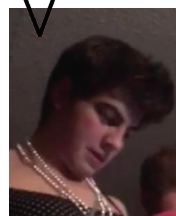
Under 20 layers of blankets.



In bed or my cousins' hot tub.

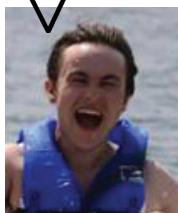


On the couch being lazy and watching movies.

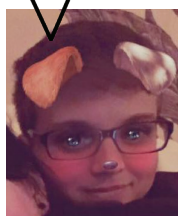


In bed, cuddling with my dog and watching Netflix.

In front of a fireplace, with beer.



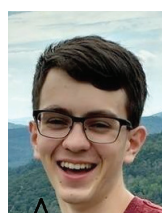
Sault Ste Marie, skiing!



In the kremlin, cracking open a cold one with my buddy Putin.

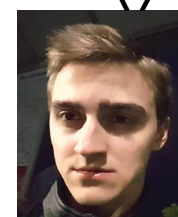
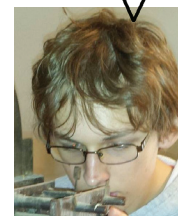


Coffee, to go, as I walk/skate along the canal.



A ski hill.

By the wood stove.



“What is your most memorable holiday moment to date and why?”



My dad threatening to cancel Christmas every Christmas Eve for as long as I can remember.

Being stuck in an elevator on new year's 2012. Best way to spend your time in Malaysia.

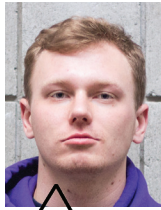


Hanging out with my friends.

COLUMNS

COFFEE REALLY ISN'T THE ANSWER TO LIFE, THE UNIVERSE AND EVERYTHING

It was this summer when I went on a boating trip with my friends and cousins. During the trip we had a lot of fun swimming, fishing, snorkeling and bbqing what we caught.



Coffee, cuz coffee.



While skiing with my family a couple of years back, we were flying down the mountain in formation with my Dad in the lead, brother following, and the rest of us trailing. We see my dad catch some air and then disappear, and my brother stops to let us know that our father had just skiied off a cliff. This would have been more unfortunate if we had not all decided we had to make the jump as well. Only minor injuries were sustained.

Sleep. The most beautiful thing in all of existence.



Finding out that Santa isn't real... no why required.... :'(



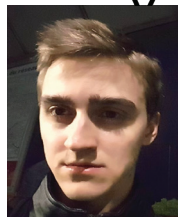
We didn't have a lot of excess money, and I was really surprised when I got a Game-Cube for Christmas with super smash brothers and an adapter to play Pokémon fire red :D 10/10 would do again.



I don't think you could publish my most memorable moment in this newspaper.



Going to Dubai to see my Pops. My brother and I had a grand ol' time. We checked out the beaches, boutiques and Bugattis. It was a splendid time to say the least ;p.

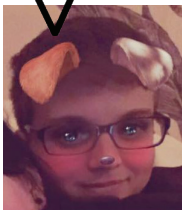


My most memorable holiday moment was when my friends back home organized a Christmas dinner and gift exchange for everyone who had gone away for school.



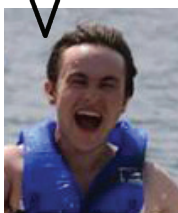
Watching my brother get the PS2 I asked for for Christmas last year...

Years ago, my little sister would always randomly say potato, so my parents wrapped a bunch of potatoes and put them in her stocking. They put her actual gifts in a potato bag in the pantry. She quickly stopped saying potato all the time.



Getting a bigass Sears train set as a little kid, because TRAINS.

Not one specific moment, but anytime me and my family would have snowball fights. Some of my fondest memories in the snow was hurling it at my family.





GALLERY

DRESSED TO THE NINES... 'CEPT OWEN



GALLERY



...AAAAAND THAT ONE GUY LOADING HIS PLATE LIKE NOBODY'S BUSINESS



LORD DANIEL, HE OF THE UNBROKEN SOUL



REPORTS

HAHA... HA..... I SEE WHAT YOU DID THERE



Milan Roy
- ACSE I -

CAPITALIZING ON *Heritage* COMMUNITY, GOVERNMENT & SAVOIR-FAIRE

Ottawa. First and foremost, this was a conference on bringing together two Canadian joints, the Association for Preservation Technology and the National Trust for Canada, for the noble cause of advancing “technology, policy, means and methods for preserving and renewing heritage buildings, districts and engineering works”.

The annual Heritage Conference took place October 11th-14th in Ottawa and I attended the final session on the windy afternoon of that Friday. The noxious smell of midterm season, mixed with the musty odor of elder conservationists, stung the nostrils. Intimidating as

it was, the view of a few dozen company booths was reassuring to the student engineer (networking and whatnot). Among the booths, there were: restoration companies/consultants, 3D building scanning technology providers, granite and soapstone dealers, concrete anchor specialists, masons, and much more. All had interestingly-boring things to say and all were looking for a reason to stand up.

This was the Architectural Conservation and Sustaina-

bility Engineer’s wet dream, so to speak (try to say that 3x fast, not in a public area). I couldn’t really tell you what the guest speakers were trying to convey, I didn’t understand a thing. All I did remember was “the greenest building is one that’s already built” and “there are three types of lies...lies, damned lies, and statistics”. To learn more about the conference and even restoration studio visits, be sure to come by my office hours at CSCE, ME3379, Mondays from 1:00 to 2:30.

CSCE DECEMBER UPDATE

CSCE Carleton has had a busy November. The month started off with a booth at the Movember Shave Off; CSCE ran Pin the Nipple on the Boobie, raising money for both Movember and Breast Cancer Awareness. On November 14th, Scott Cryer from Pinchin Ltd. came to Carleton to speak about radon gas, the effects on human health, and how to prevent it in buildings. Lastly, we ran a hydraulic bridge competition in the last week of November. Participants built drawbridges that could be raised by plastic syringes. All proceeds went to the CSES Movember Campaign. On December 2nd, the annual Cookies and Cram will be happening again. CSCE partners with the other societies in the 3300 block to provide you with study space and study snacks for the day. Our fall office hours will end on December 8th. Good luck to everyone for their fall exams, and see you in the new year!



THE CHAMPS OF THE 2017 EWB SOCCER TOURNAMENT, TEAM TEQUILA!
NOVEMBER 4TH



engineers without borders
ingénieurs sans frontières
Canada

Carleton University Chapter

Admittedly this could’ve been our ice hockey tournament, it was so slippery! Notwithstanding the conditions, Team Tequila thrashed the opposition in our 2nd annual soccer tournament. Money raised from the tournament (or pretty much any event that EWB hosts) goes towards sending a Junior Fellow to one of our ventures in Africa! A venture is an innovative start-up business that EWB partners with to push the boundaries of what is possible in Sub-Saharan Africa. We support entrepreneurs from seed to global scale; from ideas to widespread impact. These initiatives begin locally, but they have the capacity to eradicate poverty and create far-reaching change.

Be sure to look out for future events! We have our Hockey Tournament, RUBR coming soon!

REPORTS

SELF DRIVING CARS?



Decisions, Decisions

Marisol "Ghost" Leunissen
- MECH III -

What if I told you that autonomous cars are horrible drivers? You wouldn't believe me, right? Robots don't make human errors, and as human error is the cause of most accidents, robots must definitely be better drivers. Well, the fact of the matter is you would be right, but currently automotive processing systems are being implemented without considering all the case bugs. This will, in fact, lead to autonomous cars getting into more accidents than human drivers. There are currently programmers working on finding all these "edge cases" and rewriting the code so that certain errors never occur again. However, this process still leads to a lot of accidents while trying to find errors. Do you want to know the estimated time it will take for autonomous vehicles to become as efficient as human drivers?

19 YEARS

This is according to Edwin Olson, an associate professor at the university of Michigan, the director of APRIL robotic labs, and the CEO of May Mobility, Inc. This is a group focusing on creating a processing system that can reduce the required time for processing systems to find these "edge cases" by using a new technology called "Multi-Decision Policy Making".

Think of this example: you are trying to merge into the left lane. You

think of all the possible options and run through every potential outcome. Then once you know what's most logically the proper decision, you finally merge. Multi-Decision Policy Making is essentially that, but you run every potential outcome 500 times just to be safe and you do it every 20 milliseconds. Now, this is amazing information- cars that have the capability to make incredibly informed decisions in a very short time frame. Can you imagine the processing power of such a machine? Who knew that they are currently developing robots that can accurately predict human movement, making a live statistical analysis of the situation.

I certainly had no idea. And I think that's a problem. See, when we leave university, we should know what we're getting into. See, in our line of work, we are required to stay updated on what's currently going on in our field. This is a requirement from PEO. But once we leave university, we have no idea what the rest of the world has been doing. So much of what we study will be non-relevant in 5 years' time. It makes you wonder why they make you learn all this information if it becomes useless so quickly.

Now, I know that you've heard all that before. They say you learn a mindset at university, the ability to learn independently, the fundamentals of the theory so it can be applied to everything. Sure, that's great. But

when you leave and you're looking for a job? It's hard to learn independently when you don't know where to start. Engineering is a branch of applied sciences, how are you supposed to be an engineer if you don't know how the science is being applied? If university education is supposed to give you this map from which you can travel and expand your knowledge, currently for us it's just a picture. No "you are here" markers, no final destination, no estimated time of arrival, nothing.

Some professors will tell you where things are going or that it's important to learn this information because it's relevant to such and such a field. This is when you get nice professors who care that you are provided with some context of what happens with the theory you're being taught. But unfortunately, this is not the case with most classes. So where do you get that context? Where do you start? Where's the "we are here sticker" and how to we get that leg up on the real world while we're still in university? I know this opinion won't be popular, but trust me when I say you should actually do this:

Go to Wikipedia.

Yeah that's right, I referenced Wikipedia. It's only Satan Incarnate in CCDP 2100, but Wikipedia is great for many things- namely taking a concept that you may think is neat and then being able to show you

where it is being applied. For example, while (procrastinating) writing this article, I looked up Autonomous Cars. This brought me to the potential obstacles in the way of said vehicles, which brought me to a video by Carlos van de Weijer on real intelligence, who talked about how autonomous cars have to flexibly interpret the law every 2-3 seconds. He has a doctorate in mechanical engineering and has held executive positions at Siemens and TomTom. This guy has hosted TED x talks about future mobility with brains.

During the talk, he says something very interesting: "Make sure you are open for innovation; be fast, be agile, be able to quickly turn around in order to follow a new direction because you don't know where this direction is. That way you can join the force that can make the future, so you don't have the future overcome you."

From Autonomous Cars to Life Advice. Interesting tangent. But taking 5 minutes to look up some articles, to learn about something that's kind of related to your field. If you take 5 minutes to read a wiki article about Bernoulli's theory or system diagrams or even how the 3 laws of robotics work, you'll know where to start when you eventually survive university. And after all that time figuring out what's going on, you'll know where you want to go in your field.

Which just leaves one question: What will you decide to do?



CARLETON STUDENT ENGINEERING SOCIETY



DECEMBER

2017

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
27	28	29	30	1	2	3
4	5	6	7	8 Last Day of Classes (Follows a Monday schedule)	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23 Christmas Eve	24 Christmas Day!
25 Boxing Day	26	27	28	29	30 New Year's Eve	31 Happy 2018!!

EXAM LIBRARY

Visit our new (non-crashing, always online) **Exam Library** to find scanned copies of past final engineering exams from previous years (in PDF format.)

If you have a new exam that you'd like to give us, or if you'd like to request an exam that you don't see on the website, please email your VP Academic at academic@cses.carleton.ca or Exam Library Director at examlibrary@cses.carleton.ca.



[Full Exam Library](#)



CARLETON STUDENT ENGINEERING SOCIETY

3390 MACKENZIE BUILDING



WHAT IS CSES?

THE CARLETON STUDENT ENGINEERING SOCIETY HAS BEEN SERVING THE STUDENTS OF CARLETON ENGINEERING FOR MORE THAN 35 YEARS.

ITS GOAL IS TO PROVIDE ITS MEMBERS WITH ACADEMIC, PROFESSIONAL, AND SOCIAL RESOURCES TO HELP THEM MAKE THE MOST OF THEIR FOUR (OR MORE) YEARS AT CARLETON. IF YOU'RE AN UNDERGRADUATE STUDENT ENROLLED IN A STREAM OF ENGINEERING, YOU'RE A MEMBER OF CSES.



President
Sasha Christie

Hey C-Eng, as the fall semester comes to a close, I would like to wish you all the best of luck on your finals and a happy holidays! We've got some exciting projects coming up in the new year that we can't wait to get started on, like the Mental Health Committee and February Feel Good Week. We'll keep you posted on our progress, and if you ever have any questions, don't hesitate to reach out!



VP Finance
Kevin Herger

Hello hello, everyone! I hope exam studying is treating you well and not taking away what little sanity you might have left. Thanks to all the groups that applied for Fall SGF this semester, it was great! Remember to pick up all your cheques before the last day of classes. Also, just a reminder that any of your group's unused funding will not carry over into Winter SGF this year, so don't forget to apply again next semester! That's it for me, happy holidays and see you in 2018!



VP Social
Julia Ferri

Hey everyone! November was a blast with EngFrosh Reunion, Trivia Night 2.0, Whirlwind, Charity LAN and VAP... All thanks to you guys! Thank you for coming out and showing your engineering pride. Unfortunately though, as exams roll up and the semester comes to an end, so will CSES events. But not for long! Stay tuned for yet another exciting semester in the winter. Best of luck on your exams and happy holidays, we'll see you in the new year!



VP Internal
Tristan Durie

Hi Friends!!! Hope you had a good fall semester and that exam stress isn't getting you down too much. Be sure to keep a look out for my winter hiring positions if you are looking for a way to get involved! And a big Con-GRAD-ulations to all of the students who are doing their last final exams and will be graduating in February. Hope you have a Happy Holidays and New Year's- after exams that is!



VP Services
Michael Lanning

Now that December is upon us, it's finally acceptable to listen to Christmas Music; metal Christmas music though, none of that Shoppers Drug Mart garbage. We should all have our sweaters by now, so we can stay warm throughout finals (even if you end up taking the boiling hot tunnels everywhere you go). I'm working very hard to get toques and scarves done for what remains of the winter, likely January. Otherwise, stay tuned for the textbook trade as well as sweater orders next semester! We'll have some new colours to choose from, so it'll be most excellent!



VP External
Johan Prent

Bonjour C-Eng. We now approach that time of the year where I go into hibernation and do not return until conferences occur later second semester. If you are in first year, keep an eye out for FYIC (First Year Integration Conference), as this is specifically for you! While I am hiding, bundle up, enjoy some hot cocoa, and stay frosty my friends. Johan out.



VP Academic
Caroline Deluce

Hi C-Eng!!! With exams just around the corner, we don't have much planned for this month. However, stay tuned for a new year full of workshops, activities and the National Engineering Week! Good luck on exams and Happy Holidays!!!



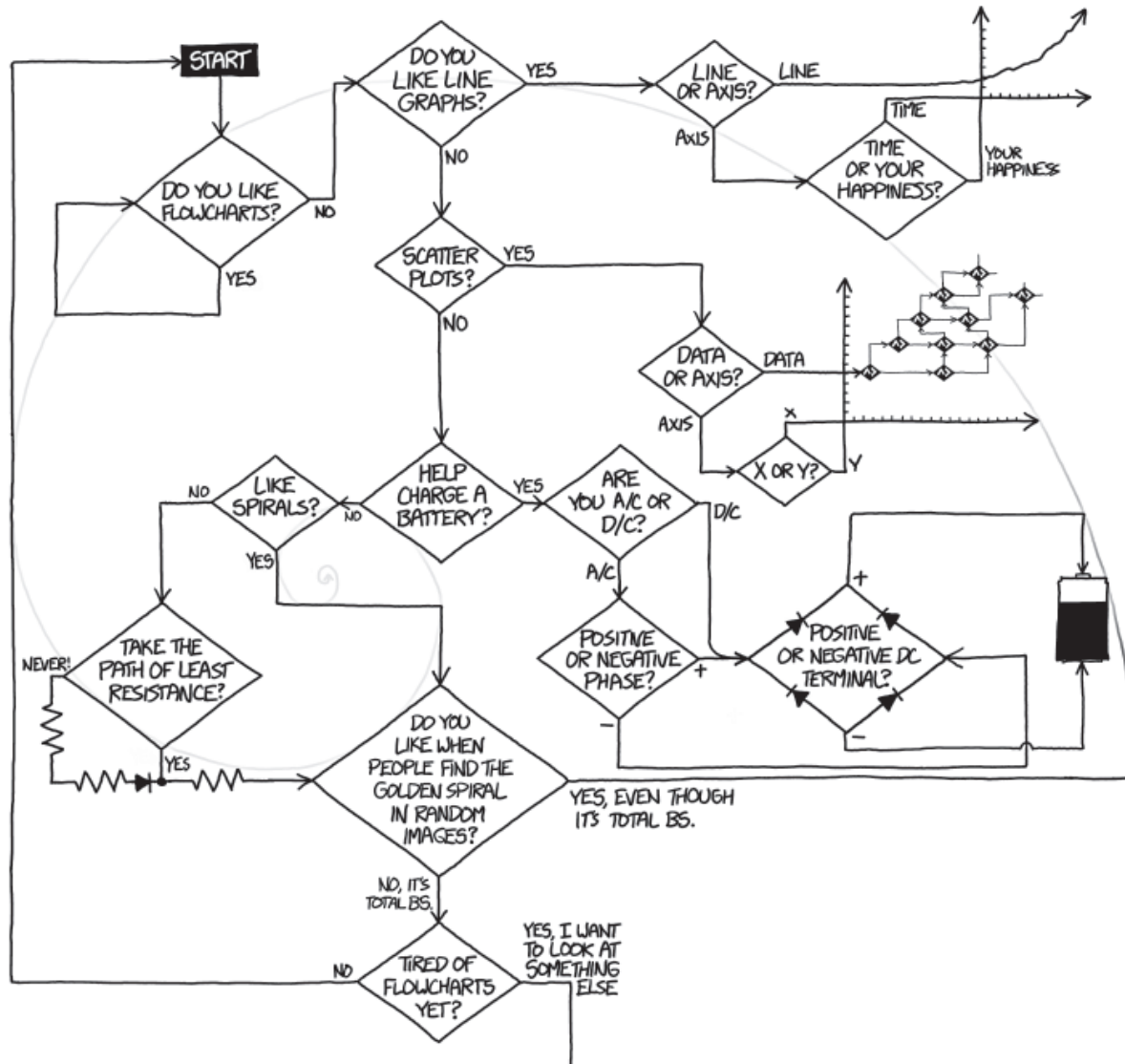
VP Publications
Cassidy Lang

Hello, C-Eng! Last month of the fall semester at last. Thank you to everyone who contributed to the yearbook poll and feedback form I released last month--I am pleased to announce that we will be seriously looking into the concept with plans to open pre-orders in January. By then, I will know more about price and specifics, and I will be hiring a yearbook team of two or more people to help me in this endeavour. Happy holidays, C-Eng; see you all in the new year!

DON'T BE A STRANGER! ANYONE INVOLVED IN CSES WOULD BE HAPPY TO TALK TO YOU ABOUT ANYTHING FROM DIRECTORSHIPS AND EVENT PLANNING TO VOLUNTEERING AT LEO'S LOUNGE, OR JUST SHOWING UP TO EVENTS. IT ALL PLAYS AN IMPORTANT ROLE IN MAKING ENGINEERING YOUR FAMILY AWAY FROM HOME. REMEMBER... EVERYTHING COUNTS FOR FLIGHTSUIT STAMPS.

DISTRACTIONS

IS THIS FROM SYSC 3900?



HOLISCOPES



ARIES

PRAY TO THE GOD OF EXAMS WHILE BURNING OFFERINGS TO APPEASE THEM. JUST AVOID DOING THIS IN A RES ROOM, THOSE FIRE ALARMS CAN BE PREEETY TOUCHY.



TAURUS

BRING A PILLOW AND YOUR FAVOURITE BLANKET TO YOUR EXAMS; BEING COMFORTABLE WILL HELP YOU DO BETTER! AND TECHNICALLY, THERE'S REALLY NOTHING AGAINST IT...



GEMINI

CHRISTMAS SHOPPING LOOKS ROUGH THIS YEAR. WHY NOT JUST GET PEOPLE IOUS? IT SAVES YOU TROUBLE WHEN YOU'RE TRYING TO STUDY FOR EXAMS, AND YOU CAN GET GREAT DISCOUNTS ON BOXING DAY.



CANCER

THESE MAY BE CHALLENGING TIMES, BUT IMAGINE ALL THE GOOD THINGS THAT WILL HAPPEN, LIKE CHRISTMAS FEASTS! TURKEY, CRANBERRY SAUCE, DESSERT... YUM!



LEO

YOU MAY FIND THAT YOUR INNER FIRE IS DIMMING SLIGHTLY; I MEAN, THERE ARE EXAMS TO WORRY ABOUT AND IT'S JUST SO DREARY OUTSIDE! ONE SUREFIRE CURE IS TO FIND THE LEGENDARY SUN LAMP LOCATED IN A HIDDEN ROOM SOMEWHERE ON CAMPUS, AND PRAISE THE SUN.



VIRGO

JUST DO IT. YEP, THAT'S ALL THE STARS HAVE TO SAY FOR YOU.



LIBRA

YOUR LIFE'S BALANCE SEEMS OFF THIS MONTH. REARRANGE THE THINGS AROUND YOU TO IMPROVE THEIR FENG SHUI AND THUS YOUR LIFE. WHILE YOU'RE AT IT, CARVE A YIN-YANG SYMBOL INTO YOUR EXAM TABLE THAT WILL BRING BALANCE TO THOSE WHO FOLLOW IN YOUR FOOTSTEPS.



SCORPIO

SCORPIO, THE SUN IS WANING FOR YOU. ACTUALLY IF YOU THINK ABOUT IT, THE SUN IS WANING FOR EVERYONE... NEVERMIND.



SAGITTARIUS

THE GHOSTS OF McRAE PAST, McRAE PRESENT AND McRAE FUTURE WILL VISIT YOU ON DECEMBER 24TH TO TEACH YOU THE TRUE MEANING OF ECOR 1010 AND THE TRAGEDY OF THE COMMONS.



CAPRICORN

REMEMBER TO KEEP YOUR FIREPLACES LIT DURING THE NIGHTS. THAT WAY, NO FAKE SANTA CLAUSES CAN SNEAK IN AND STEAL YOUR LOOT.



AQUARIUS

YOU MAY HAVE DREAMS THIS MONTH IN WHICH YOU SOAR THROUGH THE SKIES, SEEMINGLY BY MAGIC. HINT: THINKING ABOUT AERONAUTIC EQUATIONS MAY RUIN THE MAGIC.

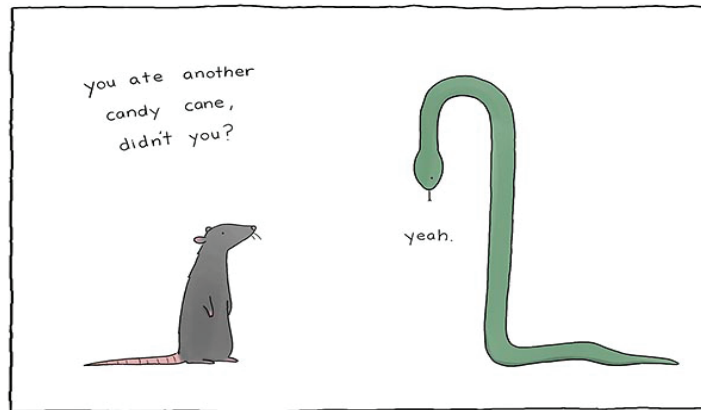
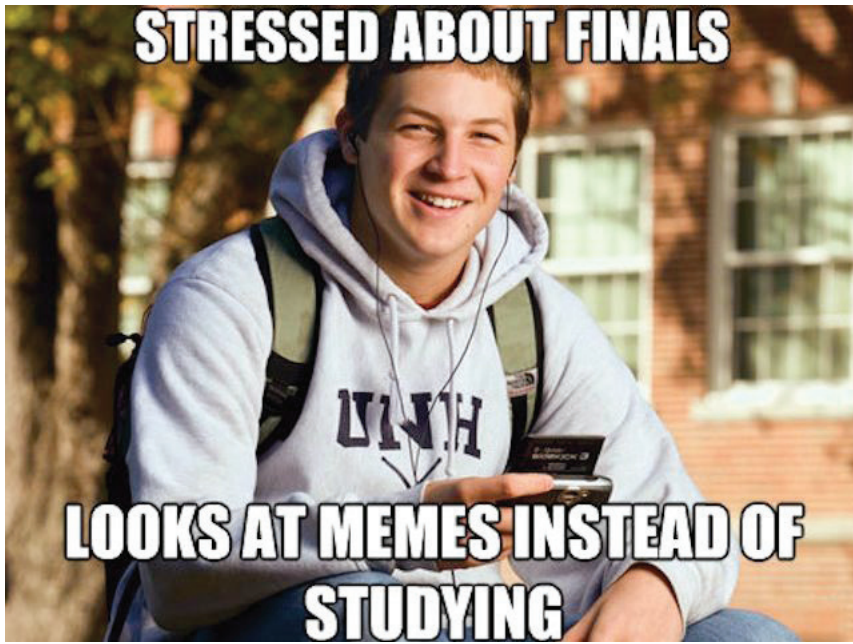


PISCES

EVERY TIME YOU GO INTO MacODRUM LIBRARY, START SINGING ♪ HAVING FUN ISN'T HARD, WHEN YOU'VE GOT A LIBRARY CARD ♪

DISTRACTIONS

WHAT GOOD HAS "BEING GOOD" EVER DONE?

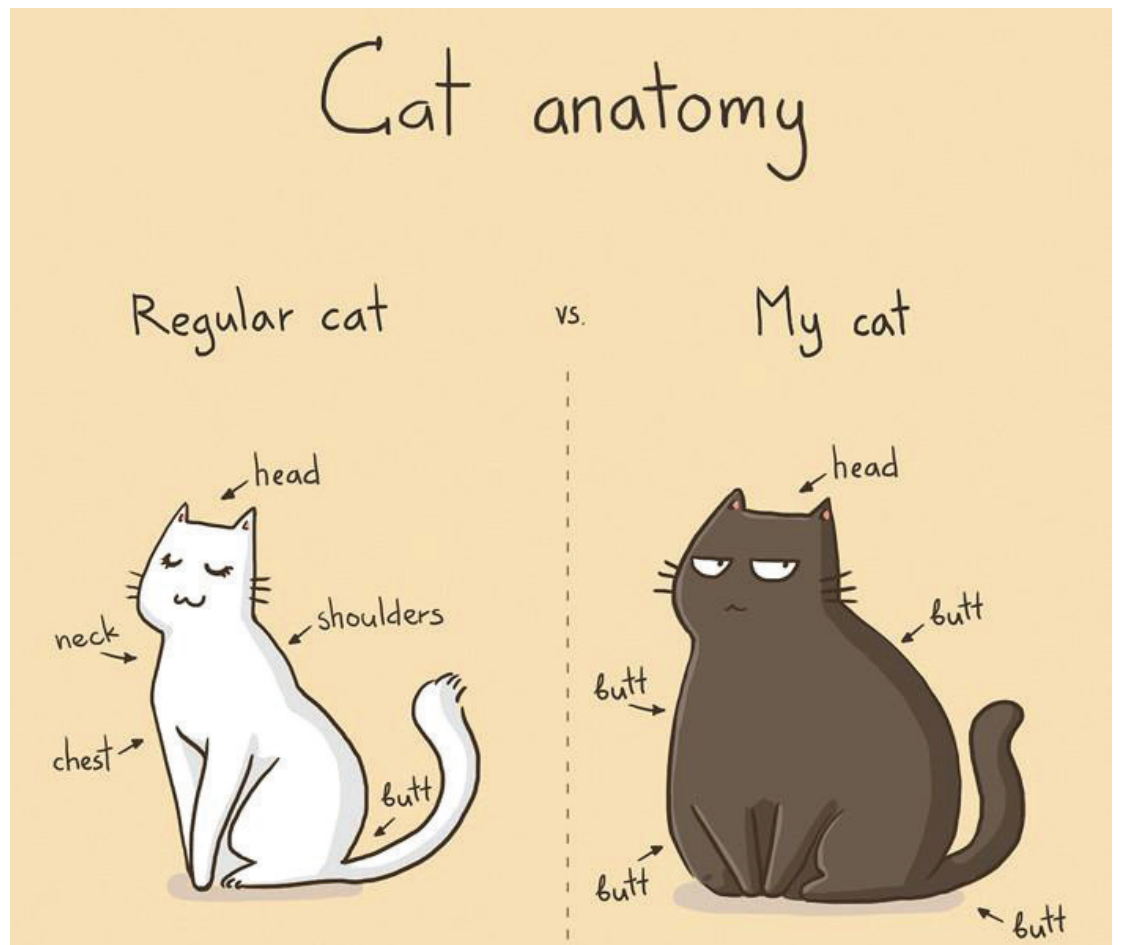
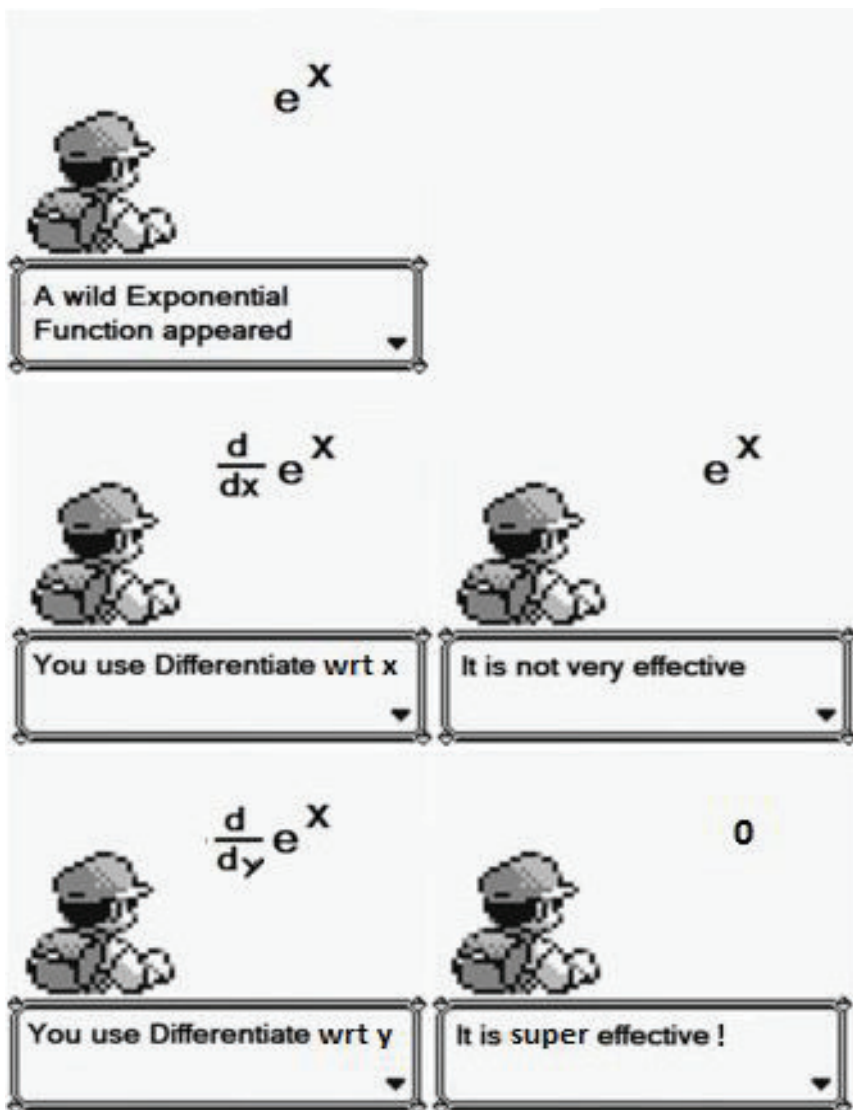


study
(verb)

The act of texting, eating and watching TV with an open textbook nearby.



When life's hard but you're trying to be healthy



LAST CALL

DOES THE "IRON" STAND FOR IRON LIVER?

THE IRON LADY COURTNEY KESTER - ARCH ENG IV -



C-Eng Involvement:

CSCE
(President, VP Social, Year Rep x2)
Troitsky x3
EngFrosh
(Frosh, Facil x3)

Hailing from: Burlington, Ontario.

Delicious Dish of your choice:

Campbell's canned vegetable soup.

What would be your dream job and why?

Working on conserving and rehabilitating heritage buildings, ideally somewhere in Europe. I love heritage – old things are pretty.

Most Magical Moment:

Looking over the cityscape with mountains in the background in Vancouver this past summer.

If you could travel anywhere, where would you go?

New Zealand to visit the little blue penguins!

Favourite song/band/genre of music:

Song: Further by the Weedsnorters.

Artist: Thomas Rhett.

Genre: Country.

If you had one day left on earth, how would you spend it?

Celebrating because of all the assignments and exams I don't have to write anymore.

One quote that really resonated with you:

"I am and always will be the optimist, the hoper of far-flung hopes and the dreamer of improbable dreams." – Matt Smith, Doctor Who

Would you rather be unable to speak, or unable to use any electronic devices (for one day)?

Unable to use any electronic devices; I'd spend the day reading in bed.

What holds the top spot on your bucket list?

Taking a hot air balloon ride over the desert to watch the sun rise.

Hit me with your best six-word horror story:

Error – your document has been corrupted.



USES FOR THE CHARLATAN

- > Stuff in the cracks of your run down windows to mitigate heat transfer
- > Pad the presents you give to others so they appear larger
- > Use as walls in cheap civil engineering projects
- > Make a 1/25 scale model of The Thing to put on your desk
- > Use as a makeshift mousepad
- > Julienne and serve with a meal of your choice. Artsy salt can add a unique flavour to your food, with just a touch of hopelessness.
- > Bookmark the important pages of your textbook before finals
- > Launch charlatan airplanes from the top of Dunton
- > You could read it

THE IRON MAN JOHAN PRENT - AERO D III -



C-Eng Involvement:

VP External of CSES (current)
EngFrosh facil x2
CMAS
(Events x2, Postering)
Charity LAN director

Hailing from: The first capital of Canada: Kingston, ON :p

Delicious Dish of your choice: Donair (10/10 super Bueno).

What would be your dream job and why?

Working for SpaceX or Lamborghini, I like things that go fast and space is pretty cool.

Most Magical Moment:

When I travelled to Nicaragua, we went to a camp on the coast very far from any city, and the first thing I did was look up. The stars in the sky that night were pretty magical.

If you could travel anywhere, where would you go?

Either Back to Venice, or travel to Asia. I haven't been to Asia yet.

Favourite song/band/genre of music:

Stairway to Heaven / Queen / don't really have a favorite genre, although I always find myself going back to classic rock.

If you had one day left on earth, how would you spend it?

Trying to do everything on my bucket list.

One quote that really resonated with you:

"No fish is bound by its bowl. Only by its will to jump" – I forget the person that said this.

Would you rather be unable to speak, or unable to use any electronic devices (for one day)?

Unable to speak; there are many ways to communicate without a voice.

What holds the top spot on your bucket list?

Seeing those stars in Nicaragua again.

Hit me with your best six-word horror story:

You mean the exam was double-sided?

Editor-in-Chief

Gabriel Karam

VP Publications

Cassidy Lang

Special Thanks To:

A last minute save, very lenient management, and FALL VAP.

- Footnotes -

Issue Made Possible By:

Cranberry Ginger Ale
EVEN MORE memes
Quality Photography
The fact that eyes can heal from Charity LAN

Last Words:

I hope they tune that piano one day -Sincerely someone who sat in Minto writing this.



STAY TUNED FOR A BRAND NEW JANUARY!