TUBES AND WIRES
THE OFFICIAL NEWSPAPER OF THE ENGINEERING STUDENTS’ SOCIETY STREAM “B”

Vol. 26, Issue 1

Jam packed with content!

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This newspaper is 100% Viktor approved!

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Welcome back to the academic circus!

TUBES AND WIRES

Tentative Events List

Josh Ewart  
Vice-President Student Life

Swimming Night  
September 30th
Come out and take a break from studying at the Oak Bay Rec Centre to hang out and maybe meet some of your fellow engineers. Swimming is from 930-11 and tickets are only a toonie sold in the ESS! Feel free to show up at the door although tickets at the door will be 4 dollars.

Free Pancake Breakfast  
October 5th
Due to the popularity of free food day we have decided to treat everyone in the ELW lobby with FREE pancakes and coffee from 8am on until we run out! We will also be selling our ESS swag, giveaways, and early bird EEE tickets!

Games Night  
October 9th
Board Games, Video Games, All kinds of games! Come out and bring your favourite, or tag in with one of the many games we will have there. Food Provided!

LTD Thanksgiving Potluck  
October 12th
The ESS is teaming up with Leadership Through Diversity to throw a fantastic potluck event. This has always been a big hit so make sure you come out!

Engineering Evening Excursion  
October 16th
This is one of the biggest events we host every semester. Be sure to get your ticket early because it always sells out. Engineering is famous for their social crawls and this one will be no different. Ticket gets you free cover to 3 different venues and bus transport between the first 2. More details to come so stay tuned!

Bug Push Charity  
October 18th
You may have seen this around campus in the past. Raise money for charity by pushing an old Volkswagen bug around campus. Get a team of 4 and sign up for half hour slots. Great fun and this year the proceeds go to United Way!

UVIC  
October 24th
University of Victoria Engineering Competition is the school wide competition that is used as a qualifier for the Western Engineering Competition which is a regional qualifier for the Canadian Engineering Competition. In addition to giving you a chance to compete with other engineers in a variety of challenges, WEC is a fantastic opportunity you should not miss out on. Talk to anyone who has been to WEC and they will be sure to tell you how much fun it is. Stay tuned for more details.

Rock Climbing  
November 18th
Based on the success of last semester's climbing day we have decided to renew this event for this semester. Come out and spend the day rock climbing and bouldering. Location and details to be announced. No experience necessary!

Formal Night  
November 20th
Do you look great in a suit or dress and just showing it off at interviews isn't enough? Come out to our formal night to dress up and have a night on the town. Location and activity to be announced.

Prof Student Social  
November 25th
Are you curious about the research your professors are doing? Are you wanting to meet your professors in a more casual setting? Come out and mingle with professors from a variety of engineering disciplines for a night. Details to be announced. More events are currently in the works so pay attention to the ESS FB group to keep up to date with all the things happening around Engineering!

Join the ESS Soccer Team!

Chris Life  
Co-Director of Sport
As engineers we need to keep our minds sharp, that’s why we have soooo many classes. We also need to keep our bodies sharp though, and that’s why we have the Rigid Members, our perennial Engineering soccer team. Whether you could have been the next Ferenc Puskas and gave up your career to study Engineering with the goal of becoming the next Wright Brothers, or you, like myself, the soccer skills of office furniture, this is the team for you. Games are Tuesday nights, so come out and let’s get some touchdowns together.

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**TUBES AND WIRES**

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**AUVic**
A team that designs and builds autonomous submersible robots.

- **Meetings:** TBD
- **Location:** ELW B250
- **Contact:** auvic@engr.uvic.ca

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**Formula SAE**
This team designs, builds, and races formula style cars for the Formula SAE competition which is the world’s largest engineering competition.

- **Meetings:** Tuesdays, 8:00 pm
- **Location:** ECS 116
- **Contact:** fsaeadmin@uvic.ca

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**Leadership Through Diversity**
Leadership Through Diversity (LTD) is a group providing leadership opportunities, and inclusive events for engineering students to network, meet other students, and get involved with their faculty.

- **Meetings:** Thursdays, 6 pm
- **Location:** TBD
- **Contact:** ltd@uvic.ca

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**UVic Hybrid**
They design and build hybrid vehicles for competition.

- **Meetings:** Mondays, 5:00 pm
- **Location:** EOW 148
- **Contact:** ecosat@uvic.ca

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**UVic Rocketry**
The UVic Rocketry (UVR) Team is a group of driven students who wish to develop their skills and knowledge in the area of rocketry.

- **Meetings:** Mondays, 6:30 pm
- **Location:** ECS 116
- **Contact:** rocketry@uvic.ca

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**UVic Biodev**
They design and prototype commercially applicable medical grade devices.

- **Meetings:** TBD
- **Location:** ECS 108
- **Contact:** uvicbiodev@gmail.com

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**MPG**
A microprocessor club that offers hands-on embedded systems training from an industry perspective.

- **Meetings:** Wednesdays, 5:30 pm
- **Location:** ECS 116
- **Contact:** martin.j.kellinghusen@ieee.org

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**ECOSat**
ECOSat builds a nano-satellite for a nationwide competition.

- **Meetings:** TBD
- **Location:** EOW 148
- **Contact:** ecosat@uvic.ca

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**IEEE**
The IEEE UVic Student branch is a student-run organization that connects students with the opportunities that are presented by the Institute of Electrical and Electronics Engineers.

- **Meetings:** Mondays, 1:00 pm
- **Location:** ELW B350
- **Contact:** martin.j.kellinghusen@ieee.org

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**UVic Aero**
A student run team that designs and fabricates aircraft.

- **Meeting Times**
  - Mechanical: Thursdays, 7:30 pm
  - Electrical: Thursdays, 6:30 pm
  - Software: Mondays, 6:00 pm
- **Location:** ELW B150
- **Contact:** stephen@uvic.ca

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**Engineers Without Borders**
Engineers Without Borders is a growing charitable organization dedicated to international development.

- **Meetings:** TBD
- **Location:** TBD
- **Contact:** communication@uvic.ewb.ca

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**ESS Weekly Meetings**
Mondays, 5:00 PM
ELW 206 (the place with the stapler)

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TUBES AND WIRES

Meet the Team Exclusive
Get to know all the intimate and close secrets of your ESS executives

Tim Erdmer—President
Tim Erdmer isn’t a man. He’s only a figment of our imagination. Some people would say that he’s only an ideal, maybe a hope that people can only grasp on to. Tim was born in San Diego during Comic-Con ’99 when a group of writers and artists got together in the same room for a brainstorming session. This session was so incredible that all of their ideas coalesced into a collective illusion named Tim. Being a dream and always a dreamer, Tim the Illusion wanders around the world spreading the hope and good spirit of Comic-Con ’99 to all that he meets.

Martin Kellinghusen—Vice-President Academic
Martin the Martian spent his childhood in the glacial suburbs of Pluto, skating, counting stars, and vacationing on the moon. On the dawn of his 18th birthday, Pluto’s Planet Certification™ was revoked by NASA, and Martin was delegated to be sent out to Earth in order to negotiate Pluto’s tragic loss. In his never-ending attempt to make his way into NASA’s head office and put right this catastrophe, he has found himself climbing the ranks of UVic Engineering, hoping to accomplish his master plan and return home a hero.

Eric Power—Vice-President External
Eric is an interesting specimen. If you get the chance to meet him don’t be afraid to ask him how he’s doing! He occasionally loiters in the ECS building dropping tic-tacs from the third floor. His greatest achievement is landing an orange flavour in a student’s water bottle. He said he never experienced such a rush in his life. This year his mission is to land a tootsie roll pop in the hands of a professor. Bold move Eric... Bold move.

When he is done satisfying his need to drop the sweets, he can be found lurking through the murky waters of Petch fountain. His favourite pastimes include eating cherry blasters in the water and dropping mars bars down the elevator shaft. If you see this happening stop by, give him a high five, and carry on with your day like you never saw a thing. This term, as VP of External, he plans to promote strong relationships with members of the community and show the world what it means to really live.
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**TUBES AND WIRES**

Brandon Hart—Vice-President Finance

Brandon Hart has been around since the time of the great legends. Ask Him about the great Douglas Fresh and prepare to have a tale about how a young fresh faced engineer took on the dragon DeArD. If it was really the great Douglas, and what his own role in the fight was, Brandon has never said. But as Vice-President Finance, Brandon has final say over all allowances given out by the ESS. So if ever your pocket money is running low, come see him for your semesterly payout, but be ready for a battle that will be legend.

Josh Ewart—Vice-President Student Life

Josh Ewart: The myth, the man, the legend. There is much controversy among historians about what really happened during his travels across the Saharan desert in the 16th century but they have decided that what follows did indeed occur. Born to a family of wealthy camel merchants in Morocco, Josh was raised in a family of much wealth and influence. At the age of 16, Josh ran away from home and into the fringes of the Saharan desert. Here he formed his own band of desert raiders which stole from the rich caravan masters of the desert and distributed the goods among the poor. His real adventure started years later when he discovered and explored the Temple of the Ancients and slaying the numerous horrific beasts inside. It is rumored that he found the secret to eternal life inside of the temple and that he now resides somewhere in British Columbia to put the life of banditry behind him.

Brock Poesiat —Vice-President Communications

Brock “Goldilocks” Poesiat is the adopted child of a family of bears after breaking into their home, sleeping in their beds and eating their food. He came to UVic after finding UBC “too hard”, and SFU “too soft”. UVic he has described as “Just Right” and continues to evaluate everything in his life by these 3 phrases. Brock has not been around for a year due to being north of the wall. Banished from the Nights Watch for refusing to abide by the “All black clothing all the time” rule, he wandered aimlessly in the snow for many moons until finally joining the wildlings and leading raids. For many months he operated purely on instinct and lost the ability to speak, opting for loud grunts. Brock then won a huge upset becoming elected as the Vice President of Communications without speaking a single intelligible word. We think he is motivated and excited to be part of this great team, but he also may have just been hungry and saw the pizza. We honestly can’t tell.
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TUBES AND WIRES

JP Bouchard —Director of Events

As an avid watcher of Duck Hunter, JP Bouchard grew up fixated on making guttural attempts of duck quacks. Constantly written off by school counsellors, JP vowed to “show them all”. But as JP tried delving deeper and deeper into conformity, he seemed to feel more and more empty.

He created a Youtube channel consisting solely of videos of quacking ducks. At the age of nine, JP elected to give up on the English language entirely. He was focused only on infiltrating a group of ducks he was convinced were a threat to public safety. JP would make his parents believe he was attending school, when really he was spending hours a day observing various avian gatherings and preparing to make his move. The day finally came. JP awoke before sunrise, journeyed to the wetland his feathered specimens called home. His outfit made of duck down he had been gathering for months prior. Then, as the sun rose, JP made his approach: in Icarus-like fashion, JP flapped his wings. The rest is history.

Michael Campbell —Director of Services

Escaping North Korea when he was only 9, Michael Campbell was destined for success from a young age. When he isn’t busy hacking Sony Entertainment you will find him preparing the polar bear machine for another EEE event or exploring the wilderness as an experienced boy scout. He is fluent in 4 languages including FORTRAN, CBASIC, LabVIEW and R which he puts to great use each day while studying African Drumming and the Science of Batman here at UVic. Fellow students stand in awe as his musical talent overwhelms the crowd at the 420 club meetings in the quad, with comments from bystanders such as “he is too legit to quit”.

Haakon Sullivan —Chief Newsletter Editor

Haakon was born on the distance planet of Betelgeuse as the son of a wealthy interstellar rare meat merchant. He spent his childhood mastering the art of Cantonese haikus. On his 18th birthday, Haakon was sent to earth to fill an order of chopped liver. However, he crashed landed and his ship was destroyed. He’s since spent time learning advanced mathematics at UNBC and engineering here at UVic in hopes of rebuilding his ship. His goals involve raiding this planet of chopped liver and returning home victorious to sell the liver at a 20% profit.

In case you haven’t heard, our national election is coming up on October 19th. Please do society a favor and vote! It’s not hard. Elections Canada is very accommodating to any situation so there is little excuse to not vote (except of course if you’re not a Canadian citizen. In this case please enjoy the show!).

Thank you to the following for the Tubes submissions!
- The executives for the creative biographies.
- Chris Life for hunting up photos of executives, the soccer article, and the LTD article.
- Josh Ewart for the events list.
- Whoever is running the EWB Facebook account for writing about the EWB.

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Tal Fleerackers — Director of Corporate Relations

Crafted as a collaboration between all Plutonian nations, Tal-bot FL-33-RACK3R5 has been deployed to Planet 3 (Earth) to gather geological data, enslave all local life forms, and infiltrate the ESS as the Director of Corporate Relations. Tal-bot has been programmed to enjoy long walks on the beach, engineering homework, and levels of sarcasm that are lethal to humans. The current executive has experimented with pushing Tal-bots buttons, in a futile IT strategy of ‘turning it off and then on again’. Please enjoy and cherish your last 4 months of autonomous existence while Tal-bot carries out her ESS duties, before resuming her primary directive and annihilating us all.

Cameron McNaught & Joshua Newton — Directors of IT

Cam-tron and Mecha-Josh emerged into reality by taking the \((255, 0, 0)_{13}\) pill on the planet Cyberton in the year \(BB8h\). After Parallax destroyed their homeworld during the Butlerian Jihad they traveled back in time to save a young Engineering student named John Connors from failing ELEC360, and while on Earth they were enslaved by Dr. Farnsworth and forced to prevent GLaDOS from converting all of the Engineering Students’ Society technology to an AOL-based environment. \(3/5\)th human, \(2/7\)th cyborg, \(2/9\)th Engineering homework, and with the durability of a Nokia 3310, they fix all technology that stands in their way.

Josh Mehlenbacher — Secretary

Josh’s move up to secretary was the byproduct of several charismatic speeches, heated debates and interpretive dances.

From these series of trials (no marmots were harmed during these tests). Josh came out as the supreme victor to wield the pen (and sometimes a novelty sword) to transcribe the goings-on of the most glorious ESS meetings.

Josh is an expert in all fields. When he is not Jet skiing down crystal clear mountain rapids, he enjoys long walks on the beach and guided group meditation sessions.

Josh also likes to _______ (verb) with _______ (Adjective) _______ (noun)!

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**TUBES AND WIRES**

Francis Charbonneau & Chris Life — Directors of Sport

Francis and Chris: Little does anyone know that these two extremely different people actually live life as a real Yin and Yang - two opposites of the same coin.

Francis hails from a small village in Spain, he grew up on paella and tacos. You may notice his beard - although he has mostly grown used to living in the city, the beard is one thing he just can’t bring himself to remove, for in it lives the memories of his past lives, one of which he was a belly dancer.

Chris, on the other hand, comes from New Zealand. As a child, he became the world’s most famous Kiwi trainer, developing a system to give them limited flight. Bored with the current state of these birds, he came to the University of Victoria to study software engineering to really give his birds a new set of tricks.

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**Get involved with LTD**

*Chris Life*

*LTD President*

**LTD**, Leadership Through Diversity, is a student group within Engineering which aims to promote inclusion, diversity, and acceptance within the Faculty. We do this by fostering safe and healthy events, and having a little fun at the same time. This semester we will be hosting pumpkin carving, a mixer for women in Engineering, and a Thanksgiving potluck, along with one or two other awesome events. We are always looking for new ways to help benefit the Faculty Engineering, and if you are interested in joining the conversation and helping plan some awesome events, we would love to hear from you. We meet every Thursday at 6pm in an as yet undetermined room in the ECS.

Check out our website at: [https://onlineacademiccommunity.uvic.ca/ltd/](https://onlineacademiccommunity.uvic.ca/ltd/)

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**Change the world with EWB**

*From the EWB Facebook account*

Interested in international development and alleviating poverty in Africa? **Engineers Without Borders** is an organization that invests in change leaders to harness their skills, not only in engineering, but in all areas, to help people who don’t have even their most basic needs fulfilled. The UVic Engineers without Borders chapter started in January 2015 and has since held many events, had guest speakers, created partnerships with local companies, attended conferences across Canada and grown our core team!

We have a beer and burger night coming up in October as well as another Fair Trade pancake breakfast in November. We will be attending the Saanich Candidates Debate on Tuesday, September 29th and will follow up with two info sessions about international development in politics. These sessions will take place on September 30th and October 6th at 7pm. Like us on Facebook to get more information on our events and to see what EWB UVic is all about! You can also follow us on twitter at @EWBUVIC. Our weekly meetings will be at 7pm in ECS 116. See you there!
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TUBES AND WIRES

Science and technology debate breaks out in agreement

Haakon Sullivan
Chief Newsletter Editor

Topics regarding science and technology usually don’t get brought up in our national elections, but last Wednesday there was a science and technology debate that hoped to change that. Organized by the University of Victoria Students’ Society, the debate hosted Murray Rankin, incumbent NDP MP for the Victoria riding, Jo-Anne Roberts, Green Party candidate for the Victoria riding, and Tim Kane, Liberal Party candidate for the Saanich-Gulf Islands riding (no Conservative candidates were present at the debate). The debate was hosted by CBC's Quirks and Quarks host Bob McDonald. By the time the debate started the Bob Wright lecture hall, which seats 350 people, was standing room only.

During the opening statements, Liberal Tim Kane mentioned that he loves science and that there is a war on science being waged by the Harper government by killing research and muzzling scientists. He also mentioned that this is the best time to run a deficit and invest in knowledge to ensure that the war on science ends with a Liberal government.

Green Roberts said that Canadians are angry and embarrassed over the current government’s war on science, and she has a deep fear of Harper being re-elected. She went further by saying that it’s not enough to remove Harper as it would only change who is pulling the levers of power. The levers of power themselves must be changed.

NDP Rankin mentioned that he taught environmental law for over 12 years at UVic. He is proud to have worked with ocean researchers, but he is not proud of Harper’s war on science. He said that he is alarmed by Harper moving away from peer reviewed research and that an NDP government will make a 180 degree turn to a more enlightened government.

From the opening statements, it became clear that the candidates had little disagreement when it comes to the roles and responsibilities of government in science and technology. During the debate, they all agreed that it is important to open up communication with government scientists. Rankin and Roberts suggested scientist advisors for the Prime Minister and parliament while Kane suggested an information portal for Canadians to examine and comment on government research.

(continued on next page)
TUBES AND WIRES

Welcome back to the academic circus!

All involved parties also agreed on restoring the long form census to improve national data. Rankin and Kane mentioned that Stats Canada should be fully independent to avoid government bias in the data. Roberts also mentioned that there should be better access to their data.

There were only a few issues where the candidates truly disagreed.

First, there was a question about how Canada should mitigate and adapt to climate change. Kane said that the provinces are doing a good job with carbon taxes and cap and trade approaches. A Trudeau government would work with the provincial governments to create emissions targets.

Both Roberts and Rankin said that they would end fossil fuel subsidies, but Roberts said that her party is the only one that opposes the expansion of the oil sands since the majority of fossil fuels must stay in the ground. She went further in saying that there needs to be incentive to look for new forms of energy, and it’s time to move forward from oil. Rankin said afterward that the 550,000 oil jobs in the country must be taken seriously and the government has a social responsibility to protect those people, but he is also excited about a transition to a low carbon economy. According to Kane, the Liberals would incentify green energy technology for it to be built and exported.

Another contention was about how to get more women and minorities involved in STEM careers. When Bob McDonald brought up the topic of child care for women in STEM, Rankin started by saying that the NDP is proposing a $15/day childcare plan. He went further to say that the child care plan in Quebec resulted in 70,000 more women working with a number of those women going into STEM careers. Roberts was next by saying that the she supports child care but there should be more child care in the workplace to inspire women. She suggested that there should be research into finding why more women are not entering STEM careers.

It was Kane who gave the sharpest rebuke of the night by calling the NDP’s daycare plan a daydream. He said that Paul Martin had a concept for a national daycare program but it was stopped when the NDP brought down the Liberal government. Rankin quipped that it wasn’t the NDP that brought down the Liberal government, it was a corruption scandal that brought it down. After a heated exchange between the two, Roberts asked why the two parties didn’t work together to bring down the Harper government.

For engineering students, there were a couple points of note. Kane mentioned that the Liberals will supply $40 million dollars in funding for more co-op placements and increase the tuition subsidy to 70%. Roberts also said that the Greens will phase out university tuition over a number of years.

I contacted John Rizzuti’s campaign office to have them explain why the Victoria riding Conservative candidate was not at the debate and their stance on science and technology issues. The campaign manager said that Rizzuti was invited to 22 all-candidates debates but they chose only 3 to attend mostly on a first to ask basis. There is a limited amount of time during the election and Rizzuti wants to spend more time knocking on doors.

As for the Conservative position, the campaign manager said that the Conservatives are pro science and technology as shown through their record on scientific projects since 2009. The government agreed to build a 30 m telescope on Hawaii which is to be manufactured in BC. They are also funding oil sands emission reduction research.

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Co-op job opening!

Company name: Fearghast International
Job Title: Laboratory Assistant - Laser Lab
Co-op Work Term: 2016 - Spring
Position Type: Regular Co-op, Full Time
Co-op Work Term Duration: 12 months full time (3 work terms)
Job Location: Skull Island, 18 miles off the east coast of Newfoundland
Region: International
Salary/Wage: 1,000 bitcoins or 350,000 USD in unmarked, nonsequential bills
Number of positions: 5
Hours per week: No
Work abroad: Yes
Job Description:

Under the leadership of Dr. Mortimer Fearghast, our multinational research company has advanced the fields of robotics, genetic engineering, and laser technology in a world that does not understand his genius. At our Skull Island facility, we have proudly created the world's first human/turtle/amoeba genetic hybrid, the world's first android assassin, and, with your help, we are poised to create the world's first giant "Diplomacy Ray" laser device.

The Diplomacy Ray is Dr. Fearghast's grandest achievement. When completed, the laser will have the power to settle all international conflict for a reasonable fee of $50 billion per month as paid for by the United Nations. As part of the Laser Lab at our Skull Island facility, you will have the opportunity to learn more about the exciting world of laser technology and be part of a rapidly growing industry. Good performance may also result in you being able to press the shiny red button if the international diplomacy fee is not paid!

We also offer a full medical and dental plan as the doctor is always on the lookout for new test subjects (must be comfortable with accepting new implants and foreign DNA).

Qualifications:
- Strong teamwork skills. If Skull Island is raided by those pesky secret agents or Navy SEALs, the doctor expects you to work together and hold your ground while he strategically retreats to the orbital escape rocket.
- Working knowledge of FORTRAN. The doctor has programmed the Diplomacy Ray targeting software in FORTRAN and requires debugging and troubleshooting. Anyone who questions the doctor's love of FORTRAN will be 'removed' immediately.
- Sound knowledge of electronics. Skull Island has many blinking lights and strange noises and none of us are sure what they do yet. Your job will be to document and watch each electronic system to determine their purpose. This may involve standing around with a clipboard and staring at devices to determine what happens.
- A strong sense of creativity. The doctor always welcomes new creative designs for traps to keep out secret agents and dispose of them. Currently, we are having an issue with agents escaping from the doctor's intricate, slow moving designs and any assistant who manages to dispose of an agent creatively will be well rewarded.

Assets:
- Knowledge of martial arts, weapons, and other combat equipment (huge plus if you are familiar with ray guns).
- A strong enthusiasm for a new Fearghast future for the world.
- An upbeat, fun attitude.

Note that an extensive background check is required. Any applicants from secret agents in groups such as MI-6 and the CIA will be immediately rejected with much prejudice.

Fearghast International is committed to creating a diverse environment and is proud to be an equal opportunity employer. The doctor loves all, so apply today!

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**Crypto Movie Quote**

What’s pleasurable about sex, other than that it feels good, is that it works.

- George Tzanetakis CSC421

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**Quotes from Engineering**

“What have you done to reinvent yourself?”

“Well, I stopped making fun of Stan”

- Paul

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**Hexadecimal Sudoku**

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**Engineering Horoscope**

**1st year**

A series of midterms and assignments may hit you with the might of a starving renegade hippopotamus. Carefully feeding this hungry hippo with your obtained knowledge will avoid crisis, but the taste of your saturated brain power will only make it hunger for more.

**Electrical and Computer**

Fear not the circuit diagram, as it will show you the direct path to much real power - so sayeth the wise sage Thevenin.

**Mechanical**

Heat and pressure can create the most fantastic moving objects, but it takes emptiness for such action to happen, which is much like engineers emptying their coffee mugs before work.

**Civil**

Fail to move the soil, the soil moves you and all you have left is a soiled reputation.

**Software**

If your code does not compile on the first try, stop and stare into the LED abyss while contemplating how you arrived at such an unfortunate situation. Consider taking a walk, sipping some tea, or attempting to seduce the code with your wiles... or maybe just put in that nefarious, elusive ; that the compiler demands.

**Biomedical**

Soon you might be creating artificial human parts to create real human joy or create a world like one in Deus Ex: Human Revolution. Choose wisely, but in the meantime play the game. It's awesome.

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