

# Luke Pritchard

lpritchard.com  
pritchlj@mcmaster.ca | 519.760.3279

## EDUCATION

### MCMASTER UNIVERSITY

#### BACHELOR OF ENGINEERING

Expected May 2019 | Hamilton, ON  
Computer Engineering & Society  
Faculty of Engineering

## LINKS

Github: [github.com/luke-pritch](https://github.com/luke-pritch)  
LinkedIn: [linkedin.com/in/luke-p](https://www.linkedin.com/in/luke-p)

## PROJECTS

### STOP SPAM

Implemented a spam filter using a Naive Bayes classifier trained on UCI's spambase dataset. Cleaned the dataset and fed it into my classifier. **Python, pandas, scikit-learn**

### RPS ROBOT ARM

HackTheNorth

Created a 3D printed robotic arm that utilizes an Arduino microcontroller and servomotors to compete against humans in the classic game: Rock, Paper Scissors  
**Arduino, C, Autodesk Inventor**

### HW IMAGE DECOMPRESSOR

Utilized newly learned skills in digital systems to design a hardware implementation of an image decompressor. **Verilog**

## SKILLS

### LANGUAGES

Java • C • Python • Bash • SAS  
Verilog • Assembly • SQL • LaTeX  
HTML • CSS • JavaScript

### TECHNOLOGIES/TOOLS

Linux • React • Git  
AWS • scikit-learn • Linux

## RELEVANT EXPERIENCE

### PHASE ONE | CODENIGHTS LEAD

Sep 2016 – Present | Hamilton, ON

- Developed and lead tutorials on programming for McMaster students
- Lead workshops for Hamilton high school students to gain exposure to programming basics such as HTML/CSS, Arduino and Python
- Planned for employer information sessions

### ONTARIO ONE CALL | CALL CENTRE AGENT

May 2016 – Sep 2016 | Guelph, ON

- Effectively delivered customer service in a professional and timely manner
- Handled emergencies to immediately dispatch crew members on site
- Resolved conflicts that arose between the caller and agent; effectively preventing escalation

### MAC FORMULA ELECTRIC | BATTERY DESIGN TEAM MEMBER

Dec 2015 – Sep 2016 | Hamilton, ON

- Building a sustainable vehicle to compete in races
- Designed safety mechanisms and emergency switches to ensure driver safety
- Collaboration is key to ensure the designs work in the final vehicle build

## EXTRA CURRICULARS

### ENGINEERING & SOCIETY STUDENT ASSOCIATION | VP GENERAL

Jan 2015 – Sep 2017 | Hamilton, ON

- Organized logistics for annual industry night dinner including room rentals, catering, and employer sponsored alumni presentations
- Disseminated information to Engineering & Society students about upcoming events and "swag" via social media

### MCMASTER ENGINEERING SOCIETY | WELCOME WEEK REP

Sep 2016 – May 2017 | Hamilton, ON

- Helped to portray the McMaster Faculty of Engineering as a welcoming home for all incoming first year students
- Connected with students and expressed how best to engage in university life
- Continued commitment to the Engineering community by participating in McMaster events throughout the year

### MCMASTER FACULTY OF ENGINEERING | VOLUNTEER

Sept 2014 – Present | Hamilton, ON

- Lead tours for prospective students and their families to inform them of the opportunities available at McMaster
- Hosted information nights for the Electrical & Computer Engineering department