

Kye Burchard

kyeb@mit.edu | github.com/kyeb | (406) 217-6239 | kyeburchard.com

EDUCATION

MIT | SB ELECTRICAL ENGINEERING AND COMPUTER SCIENCE
GPA: 5.0

2017 - 2021

GREAT FALLS HIGH SCHOOL | MONTANA
GPA: 4.0 | Rank: 1/298 | ACT: 35

2013 - 2017

EXPERIENCE

HACKMIT | DEVOPS, CORPORATE RELATIONS, LOGISTICS

May 2018 – Present

- Contributed to the development of the 2018 HackMIT splash page and sponsor portal
- Secured thousands in sponsorship funding for HackMIT and TechX
- Supervised 100 mentors, 50 volunteers, hosting for 300 hackers, WiFi, and packages for a 1,200 person hackathon

MIT MEDIA LAB | UNDERGRADUATE RESEARCHER

May - Aug. 2018

- Designed an algorithm to improve accuracy of location detection for the Rhythm Badges project
- Developed a full data processing pipeline, from raw output to analyzable dataframes, leveraging multi-core processing for efficiency
- Coordinated compliance monitoring for 6 week, 80 person experiment

MASEEH HALL EXECUTIVE COUNCIL | TREASURER

Jan. 2018 – Present

- Managed allocation, distribution, reimbursements, etc. for a \$100k budget
- Developed new budgeting system to continuously, accurately, and quickly track dorm cash flow

POLICY AND PARLIAMENTARY DEBATE | MEMBER

Sept. 2013 – Present

- Awarded 1st place at 3 statewide meets in 2016-17 season
- Competed in over 200 rounds, ranging in topics from renewable energy to encryption

PROJECTS

STREETSMARTS | C++, PYTHON, MYSQL, MULTIPLEXING

lrylander.github.io/StreetSmarts

A smart street lamp system for emergency responders, leveraging real-time optimal routing, cloud-based synchronization, and voice activation. Final project for 6.08

HACKMIT HOMEPAGE | HTML, SASS, GULP, JAVASCRIPT

hackmit.org

Self-taught HTML/CSS to contribute to the development of the HackMIT 2018 splash page, a landing site for MIT's largest hackathon

COURSEWORK

FALL 2018

Computation Structures, Intro to Algorithms, Discrete Mathematics, Differential Equations

SPRING 2018

Fundamentals of Programming, Intro to Interconnected Embedded Systems

JAN. 2018

Programming for the Puzzled, Intro to Python, Artificial General Intelligence

FALL 2017

Multivariable Calculus, Principles of Macroeconomics

SKILLS

ADVANCED

Python, Linux

KNOWLEDGEABLE

HTML/CSS, C++, JavaScript, Bash, Git, Bluespec SystemVerilog, Vim

EXPLORING

Java, React Native, nginx, Golang