

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 | Great Falls, Montana

2013 - 2017

GPA: 4.0 | Rank: 1/298 | ACT: 35 | National Merit Scholar

EXPERIENCE

MIT Media Lab | Undergraduate Researcher

May - Aug. 2018

- Designed an algorithm to improve accuracy of location detection for 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

TechX | HackMIT Dev. Corporate Relations, & Logistics

May 2018 - Present

- Contributed to development of 2018 HackMIT splash page, sponsor portal, Blueprint 2019 splash page
- Secured \$25,000+ 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

Maseeh Hall Executive Council | President 2019, Treasurer 2018, WebTech Co-Chair Jan. 2018 – Present

- Served as primary interface between the largest dorm on campus and administration
- · Led Maseeh Hall in reviving various clubs and committees,
- Developed new system to manage allocation, distribution, reimbursements, etc. for a \$150k budget

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, SQL, 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/Blueprint Homepages | HTML, CSS/SASS, GULP

hackmit.org, blueprint.hackmit.org

Self-taught HTML/CSS to contribute to the development of the HackMIT 2018 and Blueprint 2019 splash pages, the landing site for MIT's largest hackathon and high school learnathon/hackathon

Coursework

Spring 2019 Computer Systems Engineering, Circuits and Electronics, Machine Learning

Fall 2018 Computation Structures, Introduction to Algorithms

Spring 2018 Fundamentals of Programming, Intro to Interconnected Embedded Systems

SKILLS

ADVANCED Python, Linux

KNOWLEDGEABLE HTML/CSS, C++, Git, LATEX, Bluespec SystemVerilog, Vim, Pandas

EXPLORING Java, Bash, React Native, nginx, JavaScript, Golang