

# Henry Meng

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## Education

**University of Michigan, Ann Arbor, MI**

**2018 - Present**

- College of Engineering, Class of 2022
- Pursuing degree in Computer Science

**Eastside Preparatory School, Kirkland, WA**

**2012 - 2018**

- GPA 3.7/4 | SAT 1530

## Work Experience

**University of Michigan | Undergraduate Research, Ann Arbor, MI**

**Current**

- Conducting research with Prof. Alex Halderman regarding voting machine security penetration and interface device testing
- De-compiling and modifying BIOS of Accuvote TSX voting machine, converting TSX to Ballot Marking Device for use in human usability studies

**Online Biomedical Inc., Bothell, WA**

**Summers 2018 & 2017**

- As a paid Engineering and Programming Intern, designed, CAD-modeled, and built lab and manufacturing equipment for production level tasks
- Engineered and wrote Python for a new prototype manufacturing process for a key component of Sinuwave photo-disinfection medical device, reducing cost by over 80%

**Eastside Preparatory School, Kirkland, WA**

**2015-2017**

- Chosen to be school's first student teaching assistant. Developed lesson plans and taught middle-school Makerspace class (two semesters)
- Taught middle-school Robotics class. Instructed students how to design, engineer and program robots for competition (two semesters)

**Eastside Preparatory School, Kirkland, WA**

**Summers 2016 & 2015**

- Served as tech office intern. Installed video and computer equipment for classrooms and offices
- Assisted in creating new Makerspace tech area; wrote instructional guides for student use of laser cutters, CNC router, vinyl cutters, 3D printers, manufacturing tools

## Qualifications and Technical Skills

- **Proficient in:** HTML and CSS, Java, Python, Rhino CAD, Microsoft Office, Adobe Photoshop and Lightroom. Also technically skilled in soldering, CNC routing, and additive manufacturing
- **Currently training in:** C++, MATLAB, R, IDA Pro De-Compiler, ARM 32-bit Assembly

## Relevant High School Coursework and Extra-Curricular Activities

- **Courses:** functional web-design, algorithms and data-structures, web-integration, software team-dev
- **Seminars:** database management, probabilistic mathematical-modeling, basic nuclear physics
- **Captain, Varsity Robotics (two years):** Led team to place 11th (2017) and 3rd (2018) in Washington state
- **Head of Radiation Detection & Safety for Farnsworth-Hirsch Fusor nuclear-reactor project**
- **Interests:** Ultimate Frisbee, digital photography & post processing, backpacking and snowboarding