

Evan McNeil

<https://rainwaffles.github.io/>

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EDUCATION

- **University of California, Berkeley** Berkeley, CA
Bachelor's in Computer Science; GPA: 3.96; CS Course GPA: 4.0 *Aug. 2017 – May 2020 (expected)*
 - **Coursework:** The Structure and Interpretation of Computer Programs; Data Structures; Great Ideas in Computer Architecture; Designing Information Devices and Systems; Discrete Mathematics and Probability Theory; Efficient Algorithms and Intractable Problems; Operating Systems; Computer Security; Artificial Intelligence; Databases

EXPERIENCE

- **EyeCloud** Hangzhou, China
Algorithm Design Intern *May - August 2018*
 - **Face Detection and Recognition:** Wrote and employed machine learning algorithms with TensorFlow to recognize people and faces with state-of-the-art accuracy.
 - **Performance Tensor Computing:** Optimized neural networks to run on mobile platforms and researched novel pruning methods to condense existing networks.
- **AUVs at Berkeley** Berkeley, CA
Software Design Consultant *Aug. 2017 - May 2018*
 - **Systems Design:** Advised in the mechanical, electrical, and software design of a new autonomous submarine. Found solutions for the implementation of control schemes and estimations of probability functions based on highly noisy data in an underwater environment.
- **Amador Valley Robotics Team** Pleasanton, CA
President; Software Engineer *Aug. 2013 - July 2017*
 - **Leadership:** Led a team to design and create a completely autonomous submarine and compete in the annual collegiate Robosub competition. Finalist (7th) at Robosub 2015, with the highest-scoring run.
 - **Control Systems:** Created a proportional integral derivative (PID) controller to facilitate the navigation of the submarine underwater and wrote a simulator to test its functionality.
 - **Statistical Modeling:** Developed a Bayesian network for recursive estimation of the submarine's position.
 - **OpenCV:** Wrote vision processing software using OpenCV to detect and navigate toward an underwater gate.
- **ACE Coding** Pleasanton, CA
Co-President; Instructor *Aug. 2014 - July 2017*
 - **Community Service:** Taught Java, C++, and Scratch to middle school students at Harvest Park Middle School in an after-school program. Directed curriculum and organized yearly hackathons.
- **Autonomous Systems Laboratory** Stanford, CA
Research Intern *Summer 2016*
 - **C++:** Implemented multi-threading for a distributed consensus algorithm using ROS.
- **Movidius** San Mateo, CA
Software Intern *Summer 2015*
 - **Vision Processing:** Designed and wrote software on Movidius Myriad vision processing chip.
- **Coder Central** Pleasanton, CA
C++ Instructor *Summer 2015*
 - **Teaching:** Taught middle and high school students how to program in C++ in a free 6-week course.

PROJECTS

- **Alameda County Science and Engineering Fair Honorable Mention:** Project – "Designing a Protein to Remove Beta-Amyloid Plaques from Alzheimer's Brains"

PROGRAMMING SKILLS

- **Languages:** C++, Java, Python, Bash, \LaTeX **Technologies:** OpenCV, AVR, ROS, Solidworks

INTERESTS

- Vision processing, machine learning, control systems, video games, fencing, rock climbing, hiking, dogs.