Evan McNeil

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EDUCATION

University of California, Berkeley

Berkeley, CA

Bachelor's in Computer Science; GPA: 3.9

Aug. 2017 - May 2020 (expected)

o 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

Amador Valley High School

Pleasanton, CA

High School Diploma; GPA: 4.3; SAT: 2300; ACT: 36

Aug. 2013 - June 2017

o Academic Honors: National AP Scholar; USA Computing Olympiad Gold Division

EXPERIENCE

AUVs at Berkeley

Berkeley, CA

Software Design Consultant

Aug. 2017 - Current

• Systems Design: Aiding in the mechanical, electrical, and software design of a new autonomous submarine. Finding 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. Placed 7th out of 31 teams at Robosub 2015, with the highest-scoring run.
- o 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.
- 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

o 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

• Project: 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

- Laser Input Device: Provisional patent holder for a novel computer input device using a laser pointer.
- 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.