

Brendan Quinn

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Permanent Address:

355 1st Street, S1706
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EDUCATION



Cornell University, Ithaca, NY
Bachelor of Science in Computer Science

expected May 2017
GPA: 3.43 / 4.00

- Expected Vector in Artificial Intelligence
- Specialization in Robotics and Automation
- Kessler Fellowship Recipient for Entrepreneurship

Selected Coursework: Embedded Operating Systems Design, Machine Learning, Artificial Intelligence, Computer System Organization and Programming, Functional Programming, Object-Oriented Programming Design and Data Structures, Mechatronics, Operating Systems, NLP, Probability Models and Inference, Computer Vision, Analysis of Algorithms, ECE Practice and Design, Human Robot Interaction

PROFESSIONAL EXPERIENCE



Apple, Cupertino, CA
Software Engineer

July 2017 - Present

- Developed software systems to validate IP blocks in Apple SoCs including PCIe, USB, SPI, I2C, UART
- Created infrastructure to automate the bringup and assist in debug of SoC with minimal operating systems



CUAir, Ithaca, NY
Team Lead, Former Autopilot Lead Programmer

November 2013 - May 2017

- Collaborated to build an unmanned autonomous aircraft capable of takeoff, landing, waypoint navigation, wireless communication, and recognition and classification of targets. More at CUAir.org
- Managed interdisciplinary team of 50 students in designing, building, and testing a competition proven UAV
- Programmed open source Cortex-M4 autopilot, extensive testing with HIL simulation.
- Wrote a cloud based control system, python server and built the ground station for the autopilot.
- Member of 1st place team in AUVSI Student Unmanned Air Systems competition for mission



Shaper Tools, San Francisco, CA
Embedded Systems Engineer

June 2016 - August 2016

- Developed the Real-time Operating System that will run the next generation of Shaper tools
- Wrote and tested new features for the world's first hand-held CNC router, the Shaper Origin.



Bluestamp Engineering, San Francisco, CA
Software & Embedded Systems Engineer

June 2015 - August 2015

- Consulted on design and aided with the construction of various microcontroller based systems
- Devised curriculum to teach iOS, Android development, and design of PCBs, 3D printers, and CNC devices

SKILLS AND INTERESTS

Programming: C, C++, Python, Javascript, Java, MatLab, Bash, HTML/CSS, Arduino, Mac, Linux, Windows

Skills: Machining (Wood, Metal, Composites), CNC trained, Soldering, Microcontrollers, Electrical Debugging

Engineering Tools: SolidWorks CAD, AutoCAD, EagleCAD, Photoshop, Mathematica, LaTeX

Volunteering: Raised \$40,000 with Andy Foundation, volunteer with Winthrop Hospital, Garden City Fire Dept.

Interests: Personal Robotics, Home Automation, Embedded Systems Design, Firefighting, Circuitry, Photography