Kaylee Mann

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Work Experience

August 2012 - Present

UC Berkeley

Undergraduate Student Instructor (uGSI) for CS61A: The Structure and Interpretation of Computer Programs

Taught discussion and lab sections for UC Berkeley's intro Computer Science class.

Also Taught discussion sections for the intro Electrical Engineering class for nonmajors (EE42/100).

Helped develop curriculum including exam questions and discussion worksheets.

March 2012-Present

UC Berkeley

Research Assistant in Maharbiz Group

Developed energy harvesting board for fuel cells which run on glucose and are implanted into beetles.

Designed a head mounted ocelli stimulation device for insects to enable remotely controlled flight.
— Device has been tested with Dragonflies, and Locust.
— Development ongoing.

Developed embedded software in C for a device to map the impedance of a surface wound, as it heals. Device has been tested in rats.

Helped design a low-cost, open-source pulse oximeter for underdeveloped areas of the world.

May-August 2011

Northrop Grumman

Intern; Global Hawk Program

The Global Hawk is a combat-proven high altitude mili- tary reconnaissance UAV.

Developed applications for database interface and software management.

Developed a web-based tool for managing and automating the process of software peer review.

* Ackknowledged under different name

Education

May 2015 **University of California Berkeley**
B.S. Electrical Engineering and Computer Science

May 2011 **San Pasqual High School**
High school diploma
Escondido, CA

Publications

2015 **A Wearable Wireless Platform for Optically Stimulating Neurons in Small Flying Insects. (Pending Review)**
First Author

2013 **An ocellar-based flight control system for flying insects.**
*In Acknowledgements**

Skills

Programming	Python, Java, C/C++, Scheme, SQL
Web Dev.	Django, HTML, CSS, LaTeX
Artistic	Blender3D, Inkscape, Gimp, Swing Dancing
Hardware	PCB Design & Fab with Eagle, Surface Mount Devices
Embedded Dev.	Extensive experience with ATMEL and MSP430 devices
Human Languages	English (native), Spanish (Proficient), Japanese (Beginning)

Projects

2011-2013 Pioneers in Engineering
Helped organizeobotics competition for highschool students

2011 Self Balancing Autonomous Vehicle
Indep. research investigating different control algorithms