

# Kaylee Mann

WWW.KAYLEEMANN.COM

## PUBLICATIONS

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“A Wearable Wireless Platform for Visually Stimulating Small Flying Insects”  
(*IEEE EMBC 2015 Podium Presentation*)

“An ocellar-based flight control system for flying insects.” (*Listed in Acknowledgements under prior name*)

## RESEARCH

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**Research Assistant in Maharbiz Group at UC Berkeley — Feb. 2012-Present**

**Energy harvesting board** developed for fuel cells that run on glucose and are implanted into beetles.

**Head mounted visual stimulation device for insects** designed to enable remotely controlled flight. Device has been tested with Dragonflies, and Locust. Development ongoing. (paper above)

**Multi-electrode array impedance mapping:** Developed firmware and custom data logging software. (paper pending)

## TEACHING

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**Undergraduate Student Instructor (uGSI) for CS61A: The Structure and Interpretation of Computer Programs — Aug. 2012-Present**

Taught discussion and lab sections for UC Berkeley’s intro CS class.

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

Helped develop curriculum including exam questions and discussion worksheets.¶

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## EDUCATION

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

## SKILLS

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**Programming:** Python, Java, C/C++, Scheme, SQL, UNIX

**Web:** Django, HTML, CSS, LaTeX

**Artistic:** Blender3D, Inkscape, Gimp, swing dancing

**Hardware:** PCB design & fab. with Eagle and SMD

**Embedded Dev.:** Extensive experience with ATMEL and MSP430 devices

**Human Languages:** English (native), Spanish (proficient), Japanese (beginner)

## WORK EXPERIENCE

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**Intern, Northrop Grumman Global Hawk Program — May-Aug 2011**

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

Developed applications for database interface and software management.

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