Kaylee Mann

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PUBLICATIONS/PROCEEDINGS

Mann, K.; Massey, T.L.; Guha, S.; van Kleef, J.P.; Maharbiz, M.M., **"A Wearable Wireless Platform for Visually Stimulating Small Flying Insects"** *Engineering in Medicine and Biology Society (EMBC), 2014 36th Annual International Conference* (Podium Presentation)

Joshua P van Kleef, Travis Massey, Michel M Maharbiz, **"An ocellar-based flight control system for flying insects."** (Not Author; listed in Acknowledgements under prior name)

Monica Lin, Amy Liao, Elisabeth Leeflang, Yasser Khan, Felippe Pavinatto, Kaylee Mann, Agne Naujokas, David Young, Shuvo Roy, Michael Harrison, Ana Claudia Arias, Vivek Subramanian, Michel M. Maharbiz, **"Impedance Sensing Device ... "** (Currently under review for Nature Communications)

RESEARCH

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)¶

EDUCATION

University of California Berkeley

B.S. Electrical Engineering and Computer Science, May 2015; *3.700 GPA*

TEACHING

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.

Helped develop curriculum including exam questions and discussion worksheets.

uGSI for EE42/100 — Summer 2013

Intro electrical engineering class for non-majors

WORK EXPERIENCE

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 software peer review.¶

SKILLS

Programming:	Python, Java, C/C++, Scheme, SQL, UNIX
Web Dev.:	Django, HTML, CSS, LaTeX
Artistic/Creative:	Blender3D, Inkscape, Gimp, Swing Dance
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)¶

HONORS

HKN EECS Honor Society Inductee

SURF Rose Hills Research Fellowship

QUEST Qualcomm Summer Research Fellowship

UC Berkeley Regents' and Chancellor's Scholarship