

David T. Flicker

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Education	California Institute of Technology , Pasadena, CA Pursuing B.S. Computer Science Overall GPA: 3.9 Relevant coursework: Machine Learning, Computer Vision, Control Theory, and Embedded Systems	June 2015
Work Experience	Hydroid , AUV market leader Software Engineer Intern Integrated ability for vehicle to autonomously dock to underwater cable Created build customization tool saving 5 hours of developer time per new build Windows MFC, ZeroMQ, C++, and underwater acoustics	June 2013 - August 2013
	University of California, San Diego , Vinetz Group Research Associate Independently developed a new, malaria transmission-blocking drug Computational docking, python scripting, and fluorometric assays	June 2010 - September 2012
Technical Projects	Caltech Robotics Team , Designing an autonomous underwater vehicle for AUVSI/ONR RoboSub competition Electronics Lead / Project Manager Developed motor control and sensor interface PCBs Designed the overall electrical architecture of the system Spearheaded the sponsorship and outreach activities of the team	September 2012 - Present
	Caltech Rover Team , won 2nd place and \$4,000 Designed a remotely tele-operated rover for the NIA/NASA RASC-AL competition Co-authored the initial proposal that earned the team a \$10,000 grant Lead Electrical Engineer Designed the power system including batteries, routing, and voltage regulation Custom-built a servo control board and 5 V power/signal distribution board	October 2011 - May 2012
	San Diego City Robotics , placed 15th/34 in 2011 Designed an autonomous submarine for AUVSI/ONR RoboSub competition Helped faculty mentor develop a passive SONAR analysis circuit Compiled the entire vehicle's documentation	August 2009 - August 2011
Programming Tools	Environments: Languages/Tools (apprentice and higher):	Linux and Windows Python, MATLAB, bash, Haskell, Scheme, L ^A T _E X, C/C++, x86 assembly, surface-mount soldering, electronic test equipment, and Altium
Honors	Summer Undergraduate Research Fellowship	Summer 2012
Activities and Hobbies	Two year member of NCAA Div. III Caltech Swim Team	