

David T. Flicker

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Education	California Institute of Technology , Pasadena, CA Pursuing B.S. Computer Science Overall GPA: 4.0 Relevant Coursework: Machine Learning, Linear Algebra, Discrete Math, Complex Analysis, Differential Equations, Computer Systems, Computer Vision, Embedded Systems, Intro. to Control Theory	June 2015
Work Experience	Hydroid , autonomous underwater vehicles maker Software Engineer Intern Developed build automation process Integrated ability for vehicle to autonomously dock to underwater cable Windows MFC, ZeroMQ, C++, and underwater acoustics	June 2013 - September 2013
	University of California, San Diego , Vinetz Group Research Associate Independently developing 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 submarine for AUVSI/ONR RoboSub competition Electronics Lead / Project Manager Spearheading the sponsorship and outreach activities of the team Working to raise \$40,000 in monetary and in-kind donations Designed motor control and sensor interface PCBs	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 Complete project description can be found at crt.caltech.edu 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 Senior Member 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, C/C++, x86 assembly, surface-mount soldering, electronic test equipment, and Altium
Honors	Summer Undergraduate Research Fellowship High School Valedictorian National Merit Scholarship Winner Presidential Scholar Candidate	Summer 2012
Activities and Hobbies	Member of Caltech Swim Team	