

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, Intro. to Control Theory, Embedded Systems, Computer Systems, Differential Equations, Linear Algebra, Discrete Math, Complex Analysis | June 2015 |
| Work Experience | Hydroid , AUV market leader 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 - August 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, L ^A T _E X, 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 NCAA Div. III Caltech Swim Team | |