

## DANIEL T CASNER

Phone: 650.996.8730

Email: [daniel.t.casner@ieee.org](mailto:daniel.t.casner@ieee.org)

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**OBJECTIVE** A full time research / engineering position requiring cross disciplinary skills and a passion for finding elegant solutions to challenging problems

**EDUCATION** Rensselaer Polytechnic Institute, Troy, NY Masters of Science, December 2007  
Major: Computer and Systems Engineering GPA: 3.70

Lawrence University, Appleton, WI Bachelor of Arts, Cum Laude, June 2006  
Major: Physics; Minors: Computer Science and Japanese GPA: 3.58

**SKILLS**

- Expert with C/C++, Python, MATLAB and numerous other languages
- Adept at programming embedded devices with limited computational resources
- Experienced developing software for AVR, Linux, Windows CE, and Windows
- Highly proficient in Japanese

**RELATED EXPERIENCE** **Anybots Inc.**, Mountain View, CA Summer 2007 to present  
Robotics Engineering

- Improved visual feedback software to present views from a remote robot to an operator adding operator head tracking and stereoscopic display including a novel technique for preventing operator disorientation.
- Worked closely with patent attorneys to write and file numerous patent applications.
- Managed trade show booth and publicity campaign at the 2009 Consumer Electronics Show.
- Engineered numerous robot circuit boards integrating digital, analog, high frequency, and USB technology.
- Contributed to the design of a 20+ degree of freedom human capable robotic hand with unparalleled strength and dexterity.
- Conducted extensive reliability tests on robot hardware and software components.

**DOE Joint Genome Institute**, Walnut Creek, CA Summer 2006  
Technical Scholar

- Developed novel DNA sequencer run time calculation software with the potential to increase read lengths and decrease sequencing costs by up to 10 percent.

**Monterey Bay Aquarium Research Institute**, Moss Landing, CA Summer 2005  
Volunteer Research Associate

- Wrote and modified several Linux kernel modules to work with AUV systems
- Assisted with at sea AUV operation on 8 day, 600km, research cruise
- Maintained AUV hardware

**Miller Electric Manufacturing Company**, Appleton, WI 2004 – 2007  
Software Engineer (Part Time)

- Developed original AJAX web interface for remote operation of embedded factory equipment
- Created embedded database support software

**HONORS** Member, Sigma Pi Sigma National Physics Honor Society  
Recipient, Wriston Scholarship Award – academic excellence  
Member, Lambda Sigma Sophomore Honor Society  
Recipient, Kohl Academic Excellence Award

**OTHER EXPERIENCE**

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|------------------------|---------------------------------------|-------------------|
| Teaching Assistant     | Rensselaer Polytechnic Inst., Troy NY | 08/2007 – 12/2007 |
| Computer Science Tutor | Lawrence University, Appleton WI      | 09/2005 – 06/2006 |
| English Teacher        | Tsuga Elementary School, Chiba Japan  | 04/2005 – 07/2005 |
| Quantitative Tutor     | Lawrence University, Appleton WI      | 09/2004 – 04/2005 |
| Planetarium Guide      | Barlow Planetarium, Menasha WI        | 02/2000 – 12/2002 |

**INTERESTS** IEEE, Robotics, Martial Arts, Social Dance, Rocketry, Science and technology education