

Steve Safarik

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OBJECTIVE Seeking a position in a quantitative discipline where I can use mathematical and analytical techniques to explore datasets, create useful models, and develop novel algorithms to gain insight into murky data. This would ideally require a variety of skills such as control systems, machine learning, statistics, data mining, and general signals & systems engineering skills (analysis, design, simulation, implementation, etc).

EDUCATION

University of Washington, Seattle. 2004 - Present.

- Master's MS degree May 2008 for Electrical Engineering (Controls & Robotics), GPA 3.74
- Ongoing doctoral research, 2008 - Present.

California State University, Chico.

- Bachelor of Science BS degree, Mathematics (Statistics).

SUMMARY OF QUALIFICATIONS

- Proficient in mathematics, control systems, CT and DT signal processing, dynamical systems, modeling and simulation, C/C++, MATLAB, Simulink, Mathematica, some LabView, VB, PHP, etc.
- Proficient with electronic test instruments.
- Teaching Assistant for UW EE courses 233 (AC circuits), 447 (control systems), 448 (controls lab), and 449 (controls project capstone).
- Good communication and interpersonal skills.

RELEVANT EXPERIENCE

- **Electrical Engineering Graduate Student**, 2006 - Present.
- **Research Assistant** in UW EE Self-Organizing Systems Lab, 2008/9.
- **Teaching Assistant** for senior undergrad and capstone controls courses 2006/7/8/9.
- **UW Coursework** – Dynamical Systems, CT and DT Signal Processing, Optimal control, Robust control, Digital control, System Identification, State estimation, Kalman filtering, Linear systems, State-space, SISO and MIMO systems, Robotic manipulators, Intelligent Systems; Prototype hardware construction, including for undergrad control systems lab (inverted pendulum plants, temperature plants), a turbidostat to conduct directed evolution experiments in UW SOS lab, etc; Designed several control systems for UW Biorobotics surgical robot, including a hand-tremor reducing controller and a discrete-time feedback linearization controller.

OTHER EXPERIENCE

- **Various projects**, 1997 - 2006, including repair of electronic test instruments, design and construction of electronic and mechanical prototypes, created a laser-projected vector-based multiplayer video game *Spacewars*, etc.
- **Washington Foundation for Early Learning**, 2005.
- **Center on Contemporary Art**, 2004.
- **Microsoft Corporation**, *Software Test Engineer*, 1991 - 1997.
- **Aldus Corporation** (through PACE Employment Services), *Software Tester*, 1990 - 1991.
- **Columbia River Log Scaling and Grading Bureau**, *Mainframe Operator*, 1989 - 1989.
- **Meriam Library, CSU Chico**. *Stacks supervisor, Mainframe Operator*, 1986 - 1989

PROFESSIONAL ORGANIZATIONS AND AWARDS

- IEEE Control Systems Society.
- IEEE Robotics and Automation Society
- Halpert fellowship 2006/7.
- Winner of contest "MS Employee Coolest-App for Windows CE" with entry "Pad".