

## John P. Gruenfelder

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## Education

### University of Massachusetts

Amherst, MA

- Candidate for B.S., Astronomy and B.S., Computer Science  
Graduation in Spring 2008

### University of Arizona

Tucson, AZ

- From Fall 1997 to Spring 2005

## Work History and Research Experience

### Systems Manager

January 2005 - Present

- MKS Imaging Technology, LLC.

Tucson, AZ

- Develop software for image reduction and analysis, primarily of astronomical data.
- Maintain computer systems for development work.

### Research Assistant

June 1997 - December 2004

- Center for Astronomical Adaptive Optics, Steward Observatory

Tucson, AZ

- Worked under Dr. Keith Hege assisting with research tasks.
- Developed data analysis and data reduction tools for astronomical images.
- Maintain a small network of computers used for research projects.
- Assisted with development of control system for MMT Adaptive Optics (MMTAO) experiment and reverse engineering of prior control system.

### UA Cubesat Program

December 2000 - May 2005

- University of Arizona

Tucson, AZ

- Member of computer control and telemetry group
- Developer of on-board software to control operation of satellite systems and communication with ground station.
- Assisted with development of control board for Cubesat.

### UA Student Satellite Project

August 1998 - December 2000

- University of Arizona

Tucson, AZ

- Member and team leader for Data Command and Handling (DCH) team.
- Developed computer systems for the UA Sat and control software for satellite.

## **Summer Research Intern**

June 1999 - August 1999

- June 2000 - August 2000  
Center for Computing Sciences, Institute for Defense Analysis Bowie, MD
  - Research program affiliated with the National Security Agency.
  - Researched topics related to computer and network security.
  - Wrote papers for internal publication for each summer's research program.

## **Awards and Papers**

### **• Papers**

- Operating System for Control of Small Satellite Systems, May 2002  
Published in proceedings of 2002 Utah Small Satellite Conference

### **• Awards**

- Les Trophees du Libre, 2003, Soissons, France  
1st Place, General Public Category, Weasel Reader e-book software  
Awards given to deserving Free Software projects.
- Utah Small Satellite Conference, 2002  
7th Place in research paper competition
- Future Business Leaders of America  
1996, 2nd Place, National competition, Computer Concepts  
1996, 1st Place, Arizona state competition, Computer Concepts  
1997, 6th Place, National competition, Information Processing Concepts  
1997, 2nd Place, Arizona state competition, Information Processing Concepts

## **Other Experience**

### **• Weasel Reader Project**

August 2000 - Present

- Author of Weasel Reader, a free e-book reader for Palm OS handheld PDA devices.  
<http://weaselreader.org>
- Weasel Reader is an open project and has contributors from across the globe. Weasel has been translated into seven languages besides English and has several thousand users.
- Coordinating contributions from developers across the planet, including many from Eastern Europe and Russia.

### **• Newspaper Opinion Columnist**

September 2005 - Present

- Author of a weekly opinion column for the University of Massachusetts school paper, the Massachusetts Daily Collegian.
- Member of Editorial Board from February 2007 to Present.

## **Computer/Programming Skills**

- Extensive use and knowledge of C and C++
- Use and knowledge of Java, Bourne shell scripting, and ARM assembly languages
- Programming experience with UNIX and Palm OS
- Experience programming for resource constrained environments (Palm OS, embedded systems, and micro-satellites)
- Several years experience managing small clusters of Debian Linux computers
- Experience managing small Internet-based team for open source software development