

**Eric G. Barron**  
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**EDUCATION**

*Villanova University*, Villanova, PA                      Spring 2002 through Spring 2005  
B.S. in Astronomy and Astrophysics

- Dean's List.
- Recipient of Delaware Space Grant for undergraduate research.

*Florida Institute of Technology*, Melbourne, FL                      Fall 1998 to Spring 2001  
Work completed towards B.S. in Space Sciences

- President's Scholar.
- Nominated for Sigma Pi Sigma, the national physics honor society.

List of completed coursework or transcripts available upon request.

**COMPUTER SKILLS**

- *Programming Languages*—Python, bash scripting, some C/C++, basic Fortran 77/90; some GUI programming with GTK+.
- *Document Formatting*—regular use of L<sup>A</sup>T<sub>E</sub>X and HTML, experience with AbiWord, Open-office.org Writer and Microsoft Word, some XML.
- *Data Visualization*—extensive work with Gnuplot, IDL, SigmaPlot, Microsoft Excel and Grace/xmgr.
- *Presentation Preparation*—long history with OpenOffice.org Impress, L<sup>A</sup>T<sub>E</sub>X, and Microsoft Powerpoint.
- *System Administration*—five years of general Linux system administration experience with desktops, workstations, and servers.
- *Hardware*—PC Maintenance and Repair, basic Home/Small Office Networking, General Hardware Troubleshooting.

**RELEVANT EMPLOYMENT EXPERIENCE**

*Research Assistant*    Summers 2002 and 2003, and presently  
Department of Astronomy & Astrophysics, Villanova University, Villanova, PA

- Performing computer modeling of data, in-depth literature searches, and applying theory to the analysis of results.
- Developing code to streamline the computer modeling process.

*Office Automation Assistant*    June 2004 through September 2004  
Employment & Training Administration, US Department of Labor, Philadelphia, PA

- Worked with USDOL-ETA Earmark grant team, providing computer and organizational support during the busy grant proposal season.
- Maintained, updated, and improved project spreadsheets and databases.
- Using HTML, designed an easy-to-use CD compilation of valuable spreadsheet tools for Federal Project Officers (sample available upon request).
- Passed government background check.

Further employment experience not directly relevant to the desired position is available upon request.

## **LEADERSHIP**

- Civil Air Patrol cadet for four years from 1994 to 1998. Achieved highest grade of Cadet Lt. Colonel (discretionary) before leaving to focus on college coursework. Held posts of Cadet Flight Commander, Cadet Operations Officer, Cadet Executive Officer, and Cadet Squadron Commander, and successfully performed all responsibilities and administrative duties of those offices. Member of the core leadership staff that established a new cadet squadron and brought it up to a full member of the Delaware Wing of the CAP.
- Vice-president of the Villanova Astronomical Society, 2003-2004 school year.
- Administrator of three astronomy and physics organizations at FIT during the 2000-2001 school year. Coordinated activities within the groups and communication between the groups and both school administration and the national organizations.

## **PUBLICATIONS and PRESENTATIONS**

- Co-author of a poster presentation for the 204th Meeting of the AAS in Denver, June 2004.
- Presenter at the 2002 Philadelphia Area Astronomers Meeting.
- First author of a poster presentation for the 201st Meeting of the American Astronomical Society in Seattle, January 2003 (copy available upon request).
- Numerous other presentations, ranging in length from ten to 40 minutes, in classroom and on-the-job settings (samples available upon request).