Gabriel Gonzalez

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Objective

I am seeking a software engineering position where I can make a positive contribution to the technology industry by applying my knowledge of programming, mathematics, and astrophysics.

Computer Skills

Languages: C, C++, Java, Python, Bash, IDL, LaTeX, Assembly
Software: Git, SVN, GNU Debugger (GDB), Valgrind, Arduino IDE
Operating systems: Unix, Windows, OS X

Education

Boston University **May 2015**
BA : Astronomy and Physics

Work Experience

National Aeronautics and Space Administration **Greenbelt, MD**
Software Engineer *June 2015 – present*

- Integrating a program called 42 with flight software in order to enable CubeSat Hardware-in-the-Loop testing.

Boston University Computer Science Department **Boston, MA**
Software Engineer *January 2015 – present*

- Testing and modifying the kernel of a multi-node library runtime, called EbbRT, in order to implement a clock for the system.

Boston University Satellite for Applications and Training **Boston, MA**
Software Engineer *September 2014 – present*

- Developing communications software for Boston University's ANDESITE nanosatellite, and the picosatellites it will house.
- Developing sensory software for eight picosats composed of an Atmel ATMega 2560 chip, an RFM22B radio to send and receive data, an LSM9DS0 gyroscope/accelerometer/magnetometer sensor, and a global positioning system.
- Creating a simulation of in-flight processes that will occur when the nanosat and picosats are in orbit.

Boston University Center for Space Physics **Boston, MA**
Lab Assistant *May 2014 – February 2015*

- Constructed an algorithm that expresses the wavelength of light as a function of pixel location on the Venus Spectral Rocket (VeSpR) imager CCD.
- Developed software to conduct post flight analysis of the VeSpR mission result data.

Boston University Center for Space Physics **Boston, MA**
Research Assistant *September 2014 – October 2014*

- Constructed an algorithm to automatically remove scattered background light in images taken by the Mars Atmosphere and Volatile Evolution (MAVEN) Imaging Ultraviolet Spectrograph (IUVS) instrument.

Boston University Center for Space Physics **Boston, MA**
Lab Assistant *June 2014 – August 2014*

- Repaired electrical and mechanical defects in a damaged vacuum chamber.
- Developed software for an Arduino Mega 2560 that would be used to control four stepper motors.

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Work Experience

Boston University Center for Space Physics **Boston, MA**
Research Assistant *February 2012 – December 2013*

- Did stuff with PW.

Projects

Elysia
Login Manager
A highly configurable login manager.

Atlas
Status Bar
Meant to be a replacement for the dwm text statusbar.

Aria
Notification Bubble
Meant to be a replacement for the dwm text statusbar.