

2005 Columbia Pike, Apt #525
Arlington, VA 22204
(805) 895-4626

Website: gabegonzalez.me

Github: github.com/gabeg805

LinkedIn: [linkedin.com/in/gabeg805](https://www.linkedin.com/in/gabeg805)

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

- Created a CAD model of a vacuum chamber's switchboard.
- Tested the operating state of a damaged vacuum chamber.
- Replaced defective vacuum chamber equipment.

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

- Developed an algorithm to analyze the response of the Mars ionosphere to solar flares, utilizing radio occultation measurements made by the Mars Global Surveyor (MGS).
- Categorized solar flare intensities based on the Flare Irradiance Spectral Model's (FISM) flare strength and the electron density enhancement in the M2 region of the ionosphere.
- Analyzed the relationship between solar flare intensity and Earth-Sun-Moon angle, as well as solar flare intensity and solar zenith angle.
- Created a map of the electron density in the Venus upper ionosphere using Pioneer Venus Orbiter (PVO) Ion Mass Spectrometer (OIMS) data.
- Compared the OIMS data to the Orbiter Electron Temperature Probe and Orbiter Retarding Potential Analyzer (ORPA) ionospheric data.
- Determined the potential invalidity of the PVO data set due to its skewed results when compared to VIRI and VEX.

PROJECTS

Elysia*Login Manager*

A GTK+ based login manager written entirely in C that is designed to be customizable to the user's preference and have completely open source code.

Atlas*Status Bar*

A gtkmm based C++ status bar designed to be a replacement for the dwm text status bar. It is an improvement to the default dwm status bar in that it allows for both text and images to be displayed anywhere on the status bar, and additionally allows for the status bar itself to be placed in any orientation and location on the X server.

Aria*Notification Bubble*

A gtkmm based C++ notification bubble that is designed to be highly configurable, with the user able to customize the location it is displayed, font, text size, background color, foreground color, and more.