Philip Nelson

Junior in Computer Science Seeking Internship

Philip.Nelson@aggiemail.usu.edu | 925-239-5417

EDUCATION

UTAH STATE UNIVERSITY
BS in Computer Science and Computational Mathematics
May 2019 | Logan, UT
GPA: 3.67

LINKS

Github:// PhilipNelson5
LinkedIn:// PhilipNelson5

SKILLS

LANGUAGES
- C \ C++
- Haskell
- Python
- Java

TOOLS
- Linux\UNIX
- VIM
- Arduino
- Git
- Raspberry Pi
- Beagle Bone Black
- SolidWorks

OTHER
- Fluent Portuguese (Speaking, Reading, Writing)

ACHIEVEMENTS

LICENSED HAM RADIO TECHNICIAN
- callsign : KI7PAH

PRESIDENT'S VOLUNTEER SERVICE AWARD
- Nationally recognized
- Silver Award
- Awarded for completing 400 hours of community service

EAGLE SCOUT
- Organized service activities involving up to 21 scouts and leaders
- Constructed and installed barn owl boxes for local condominium complex.

INTERNSHIPS

UTAH NASA SPACE GRANT CONSORTIUM | Fellow
June 2017 – August 2017 | Logan, UT
- Chosen for fellowship because of previous software development done with USU Get Away Special Team
- Developed software to aid in high altitude balloon launches that was used to calculate required balloon lift at launch time
- Implemented open source SPA architecture for cubesat flight software (Cubium)
- Demonstrated Cubium inter-process UDP socket communication at Small Sat Conference in Logan, Utah

PROJECTS

USU GET AWAY SPECIAL TEAM | CubeSat Developer
June 2016 – Present | Logan, UT
- Develop, unit test and debug C/C++ code for Linux-based CubeSat flight software in a team of 5 students
- Design, build and test integrated cube-sat systems
- Launch and recover high altitude balloons with an interdisciplinary team of 20 students, while maintaining communication with payloads over RF
- Utilized HAM Radio to track prototype payloads and to coordinate recovery efforts

LEADERSHIP & SERVICE

AMERICORPS | VISTA Summer Associate
May 2017 – June 2017 | Logan, UT
- Completed 400 hours of STEM outreach
- Provided free summer camps for Hispanic youth in STEM fields and coordinated with local schools to provide free lunch to campers
- Coordinated two six-week camps serving 23 local youth

COMMUNITY SERVICE ORGANIZATION | Volunteer
May 2014 – April 2016 | Rio Grande do Sul, Brazil
- Supervised up to 10 volunteers, helped them establish goals, and followed up on their results
- Developed strong communication skills while presenting programs to the public that promoted behavioral and life style changes
- Offered community service and participated in charity work including cleaning of local facilities, and gathering and distributing aid materials after natural disasters

WORK EXPERIENCE

UTAH STATE UNIVERSITY | Computer Science Tutor
January 2017 – Present | Logan, UT
- Help identify and solve specific programming problems with students and assist with algorithm design and ensure conceptual understanding
- Resolve program bugs by enabling students to resolve questions without doing the work for them
- Collaborate with tutors and students in a professional manner