Stephen Flores

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SKILL SUMMARY

Main Programming Languages: C, C++, Java, Swift
Experience in: LabView, MatLab, Python
Environments: Xcode, bash, git, MS Office Suite, LabView

Major Platforms:
Ubuntu Linux
Arduino Embedded
MacOS/iOS

EDUCATION

Arizona State University - Tempe, AZ — Expected May 2019

- **Major:** BS Computer Science —GPA: 3.90/4.00

EXPERIENCE AND PROJECTS

Flight Software Developer — ASU CanSat Competition Team — **Aug 2016 - present**

- Designed and implemented flight software for autonomous solar-powered glider and protective container. Used Arduino/C++ platform. - Aug 2016 - June 2017
- Designed and implemented native macOS ground station application for command, telemetry, and data handling. Used Xcode/Swift platform. - Jan 2017 - June 2017
- Designing flight software for autonomous protective reentry vehicles for sensitive payloads. Using Arduino/C++ platform. - Aug 2017 - present
- Team won 3rd place out of 40 international teams during 2017 CanSat Competition (www.cansatcompetition.com). - June 2017

Software Navigation Engineer — AZLoop Hyperloop Team — **Dec 2016 - Aug 2017**

- Designed state-driven control system for high-speed hyperloop pod. - Dec 2016 - Jun 2017
- Designed and implemented strap-down inertial navigation system over serial connection with MTi IMU, with redundant optical backup system. - Jun 2017 - Aug 2017

Flight Software Developer — Phoenix Satellite (3U CubeSat) — **May 2016 - present**

- Designed and implemented high-level management application for Attitude Determination and Control hardware using NASA Core Flight System. - Jan 2017 - Nov 2017
- Designing UHF radio management application using the Atmel Software Framework, NASA Core Flight System, and the CubeSat Space Protocol. - Nov 2017 - present

Payload Software Developer — ASU ASCEND Team — **Jan 2016 - present**

- Designed and implemented data acquisition software for high-altitude weather balloon payload, funded by NASA Space Grant. - Jan 2016 - present

WORK EXPERIENCE

Merchandiser — Webco General Partnership — **Fall 2016 - Spr 2017**

- Tracked and maintained all Webco products store-wide using self-maintained item tracking system.
- Built iPad application for self-maintained time management and task logging.