Frank Palmisano

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Summary

Versatile Software Engineer with a wealth of experience in aerospace and space applications, offering exceptional problem-solving skills, adaptability to new technologies, and a keen ability to drive projects forward. Proven track record in successfully managing software obsolescence and delivering high-quality code, demonstrated in key projects such as NASA's International Space Station and the Orion Space Capsule Program. Recognized for an aptitude for leadership, contributing positively to team dynamics, and effectively serving as a liaison across multidisciplinary teams.

Education

**Arizona State University**, Ira A. Fulton Schools of Engineering • Tempe, Arizona • **May 7, 2018**

**B.S.,** Computer Science: Major GPA: 3.60

* Member of the **National Society of Collegiate Scholars**.
* Led Capstone Project team to develop an entire **enterprise level web application** in 10 months.
* **Fulton Ultimate Engineering Leadership program**, achieved first place in entrepreneurship program.

Skills

**Software:** Visual Studio, Simics, SCADE Suite, ClearCase, Linux/Unix command line, Eclipse, IntelliJ, Clion

**Languages:** C/C++, Bash, Simics Device Modeling Language, Java, Python, Swift, Angular, Node.js, LabVIEW

**Programming Skills:** Test software development, RTOS, Object Oriented Programming, obsolescence, Data Structures, Distributed Development, Debugging and Testing, Problem Solving, Assistive Technologies for the disabled, UML, Waterfall, and Agile development lifecycles.

Work Experience

**Honeywell Aerospace**, Phoenix, Arizona – **May 14, 2018 – June 2024**

Aerospace, Defense, and Space engineering firm.

**Software Engineer I - II**

* **NASA Orion Space Capsule Program** – Using Wind River **Simics** to simulate the space Orion capsule’s RTOS Display unit and its operating system.
  + **C/C++** embedded code, cross support for test and design engineers. Provide Simics application support and maintenance and sole ownership of the Orion Display unit Simics code, Customer equivalency testing support.
  + **Conducted, created curriculum, and hosted live training sessions & Virtual Labs** forinternal teams of engineers on Simics simulation, command line, and Simics device modeling language.
* Software engineering and systems engineering for **CMG wheel programs** using LabVIEW and hardware interface.
  + **Leadership** position of focal for all STE issues and maintenance after 4 months of start date.
* Software engineer for **NASA** **ISS PMTE maintenance for MDM program**, collaborating with Electronic Solutions team and contractor on software production and releases.
  + Familiar with **MDM** (multiplexor/demultiplexer code, and maintaining C/C++ embeded drivers and other software components, directly with key stakeholders of the **ISS MDM product software group.**
  + **Implemented new hardware and software** solutions to **handle obsolescence** within the ISS group.
  + Created computer tray main drive verification software application which significantly **improves cycle time** of validating hard drives for all PMTEs both in lab and in factory..

**Performance Software Corporation**, Phoenix, Arizona – **Jul 1, 2016 - Oct 4, 2016**

Aerospace and defense safety critical software engineering firm.

**Software Engineer Internship**

* **Developed and maintained python scripts** for use by **Northrop Grumman** in a **Blackhawk Helicopter** project**.**
* **Completed my tasks faster than coworkers**, leading to tasks being completed **before the deadline.**
* Developed a python tool **that increased team’s script creation cycle time by 38%.**
* Suggested innovative ideas that were implemented into the project’s process for **increased team efficiency.**
* Tested software using real time operating systems and real time testing suites.

**Life Jewel Technologies**, Tempe, Arizona – **December 2016 – June 2017**

**Award winning startup** - Teaching language to children through object recognizing stuffed animal.

**Co-founder and Chief Technology Officer**

* Developed Objective C and Swift software to recognized objects using Bluetooth iBeacon technology.
* **Sole engineer in the development of all software** for the product and **copyrighted my work**.
* Developed cross-platform software to work on various forms of hardware such as Android and Windows Phone OS.

**Apple Inc.**, Tempe, Arizona – **Jun 2, 2014 - Dec 5, 2014**

Multinational technology company that designs, develops, and sells consumer electronics and software.

**Advisor**

* **Understood customer needs** so well that **I obtained awards and leadership recognition.**
* Became the go-to person for **coworker collaboration since my performance exceeded peers.**
* Awarded numerous awards for customer service and average call solution time.

All gaps of employment are attributed to my time spent earning my degree.

Personal Projects

* + - * **Project**: Math Services Website - Lead a team to develop an array of **SOAP and REST web** **services** to deploy online for use by anyone on the ASU server. Services included a PI calculation to the nth decimal service.
      * **Project**: 3-in-a-Row game solver - **Developed a windows application GUI in C# using Visual Studio** for solving the grid game of “3-in-a-Row”. **Interfaced with a brand-new Logic Language** called MVSM to compute game solution and relayed solution to the user. **Used distributed computing by means of SSH communication with the MVSM servers.**
      * **Project:** Currency Converter App – Developed an iOS application that **gathered real-time exchange rates** for any country and related the rates to a user selected country. Application **utilized online web services** to collect exchange rate data, and also **used multithreading** to run app efficiently while waiting for web service responses.