GEORGE F SULLIVAN III

VETERAN – ENTREPRENEUR – LEADER – PROGRAMMER

606 Stoneledge Dr ■ Friendswood, TX 77546 ■ (281) 854-5357 ■ george@atstechnicalservices.com

PERSONAL SUMMARY

Strong interpersonal skills – frequently requested by name to spearhead investigations and develop robust resolution plans. Unique background and extremely broad knowledge allows for in-depth problem solving at any level.

Over 11 years of technical experience; works well in development and client-facing roles; effective as a subject matter expert (SME) and advisor to clients and technical personnel with minimal familiarization.

Extreme learner – actively pursues new concepts and methodologies, but tempers changes to production with pragmatism. Excels at combining knowledge from multiple disciplines to develop tailored solutions. Aggressively seeks mentorship and opportunities to expand personal toolset.

Polyglot with experience across the hardware/software spectrum from Embedded C to ASP.Net, PHP, HTML5, CSS3, Javascript, Python, Java, Android, VBA, SQL, MySQL, networking, data analysis, RF communications systems, circuit board design, desktop programs, and web applications.

WORK EXPERIENCE

ATS TECHNICAL SERVICES

Owner (Business and Software Consultant) Oct 2018 – Current

- Combines software and business system knowledge to negotiate and execute custom software and web contracts, valued up to $35k each
- Developer of multiple full stack web solutions for assets ranging from informational sites to SAAS applications that leverage user interaction tracking, database integration, and 'smart' interface elements:
    - Sample project listing: https://www.atstechnicalservices.com/projects/
    - Projects in the sample listing of particular interest to this req:
    - EDR Processor – analyzes and post-processes raw flight data recorder data for NASA aviation engineers, user maintained, still in use in 2019
    - The G.E.O.R.G.E. – CAD-lite application designed to simulate an RF test environment to a level of accuracy that allows test engineers to design and verify test setups before they are implemented
    - The International Space Station Telemetry Analysis Tool – reads and displays raw ISS telemetry; produces '5-dimensional' plots that allow for depth of analysis not available using existing tools

THE BOEING COMPANY

International Space Station (ISS) Communications & Tracking (C&T) Engineer Mar 2016 – Oct 2018

- Assistant to Technical Lead Engineer – filled multiple roles simultaneously for the ISS C&T group; significantly enhanced group capabilities with direct positive impacts to NASA/Boeing Award Fee
- Leveraged cross-functional relationships to troubleshoot and resolve technical problems relating to ISS software and networking beyond the scope of C&T that had remained unsolved for 10+ years
- Significantly enhanced group web portal without backend support – leveraged limited available Javascript tools and local data tracking to automatically fetch and display resources based on user behavior

- Authored several Excel tools that simplified workflows and automated data analysis, freeing up RF engineers' time to perform other mission critical and design-related tasks.
- Developed MS Access based application that tracks action item status and automatically sends emails for concurrence and closure when certain milestones are met
- Correspondence from NASA to management indicate quality of work is among "the best I've ever seen" - recognized by Boeing management; promoted in 1 year, well below the baseline

ENGINEERING INNOVATION CENTER

Student Technician and Instructor Mar 2015 – Dec 2015

- Formally hired after several semesters of informally mentoring engineering students – offer was extended once a sign stating "In George We Trust" was displayed in the Engineering Innovation Center
- Developed and taught engineering skills classes – electronic troubleshooting, circuit board design, programming, presentation and communication
- Performed hardware and software design review for capstone projects; fielded student ideas and offered coaching/mentorship for capstone teams – student pass rate increased 50% over previous semesters
- Developed a scalable wireless tracking system – utilizing multiple Raspberry Pi RF base stations running custom Pcap services; passes data to a Java-based server that performs ranging, tracking, and logging
- Was offered a position as a college-level instructor upon graduation

NATIONAL AERONAUTICS & SPACE ADMINISTRATION

Electrical Engineering Co-op Jan 2013 – Aug 2015

- Multiple tours as a NASA Engineering co-op; collaborated with full-time engineers to meet goals on hardware design, networking, wireless, robotics, and aviation projects
- Deconstructed, redesigned, and rewrote software that analyzes flight data recorder data - decreased processing time from multiple hours to 70 seconds per dataset; still used in 2019 to analyze mission data
- Developed new integration, test, and inspection plan for transport aircraft power system upgrade

UNITED STATES AIR FORCE

Avionics Sensors (Laser and RF systems) Supervisor (SSgt) Feb 2003 – Aug 2009

- Promoted ahead of peers from technician to team leader to production supervisor in under a year
- Hand-selected to manage a forward-deployed maintenance section after only 6 months on-station, a position typically reserved for supervisors with 18-24 months experience
- Technical expert: often called upon to complete tasks beyond scope of day-to-day maintenance
- Led teams specializing in complex troubleshooting; established procedures for others to follow

EDUCATION

TEXAS A&M UNIVERSITY College Station, TX Jan 2012 to Dec 2015

Bachelor of Science in Electrical Engineering, 3.76 GPA *Magna Cum Laude*