

Current Clearances: DOD Secret and NOAA Public Trust

SYSTEMS AND INTEGRATION ENGINEER

I am a Systems and Integration engineer. The majority of my experience is in the integration of hardware and software during the development of large ground systems for satellite operations. I specialize in rapid learning and the application of varied technologies.

TECHNICAL SKILLS TALENT STACK

Systems Engineering	Integration Engineering
Root Cause Analysis, Critical Thinking	Requirements Analysis
Team Leader, Customer Facing	Agile, Scrum, Waterfall, Spiral Methodologies
Off The Shelf (OTS) Hardware	OTS Software Applications
Linux, Red Hat, CentOS, Debian, Ubuntu	Networking
Microsoft Windows Operating Systems	Internet and Web Technologies
Scripting, Interpreted, and Compiled Languages	Structured and Object-Oriented Architectures
Software Development	WordPress Web Site Development
Performance Analysis, Timing and Sizing	Functional Decomposition
LDAP, DNS, DHCP, NFS, NTP, SAN, NAS	C++, JAVA, PERL, Python, bash, shell scripting

PROFESSIONAL EXPERIENCE

Harris Corporation, Melbourne FL 1997–Present

GOES-R Weather Satellite Program, 2010–Present

- Integrated ground command and control for the next generation geostationary weather satellite.
- Supervisor, led a team in integration, installation, and anomaly resolution efforts.
- OTS HW and SW integration, network technologies, Linux server and workstation integration.

GPS Next Generation Operational Control System (OCX), 2009-2010

- Systems engineering and integration of Global Positioning System (GPS) Satellite constellation ground station, network integration, workstations, servers, firewalls, and routers.
- Systems integration and requirements analysis using DOORS, MS Project, Excel, and PowerPoint.

Web Access Retrieval Portal (WARP), 2006–2008

- Project lead for multi-level classified satellite imagery repository. A Google maps-like system.
- Systems and integration engineering management for imagery ingesting, decommutation, processing, storage and retrieval.

GPS Launch, Anomaly Resolution, and Disposal Operations (LADO), 2002-2006

- Primary systems engineer, SDR, PDR, CDR, TIMs, customer facing, systems architecture.
- Technical lead for a Microsoft Windows based ground control for GPS satellite constellation.

Information Access Services (IAS), 2001–2002

- Systems Engineering for Web-based Satellite imagery database with search/data mining.
- Designed and implemented performance analysis and load testing for web-enabled system.

Small Tactical Terminal (STT), 1999–2001

- Primary systems engineer for a tactical weather station used in-theater for global deployment.
- System requirements analysis and integration of software and hardware components.

Dynamic Database/Airports, 1997–1998

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- State of the art commercial mobile/fixed computing technologies, prototyping and applications assessment for airports, government tax assessors, and commercial needs.
 - Prototype and IRAD efforts for hand-held computers and other innovative technologies to determine feasibility for use in existing data collection and processing systems.

Merritt Systems Inc, Rockledge FL 1996–1997

Sensor Array, United States Navy

- Principal engineer. Led a team in the development of a sensor array for the Navy.
- Temperature and tactile sensor array development. Full end to end integration from environmental sensors, data processing, and human interfacing. Windows based, microcontroller operated processing, and software development and integration.

Northrop Grumman, Melbourne FL 1993–1996

Northrop Grumman E-8 Joint Surveillance Target Attack Radar System (JSTARS) Program

- Integration and Cognizant Engineer for networking subsystem. Customer and vendor interfacing.
- Lead network engineer for JSTARS program, responsible for operation of the network onboard the E-8 aircraft.
- Responsible for the engineering and integration of the commercial off-the-shelf network hardware selected for ruggedization and installation on the aircraft.

Boeing Aerospace Operations, Kennedy Space Center FL 1990–1991

Networking and Computer Integration

- Installation and integration of a wide range of computer equipment and networking components. Computer workstation systems integration activities, networking infrastructure and problem resolution.

Pan-Am World Services, Cape Canaveral Air Force Station FL 1989-1990 (Summer Co-op)

Base Operations

- Co-operative Education work experience with engineering, facilities wiring, and infrastructure. Introduction to design and work process for performing equipment modifications.

EDUCATION

Masters of Science, Computer Science, 2006 • Florida Institute of Technology, Melbourne, FL
Bachelor of Science, Electrical Engineering, 1993 • Florida Institute of Technology, Melbourne, FL

SOFT SKILLS TALENT STACK

- Host of the Super Smart Guy Podcast: Work Smarter. Business and productivity subject matter. Available on iTunes, Stitcher, TuneIn. Website: www.supersmartguy.com
- Toastmaster: 15 years. Competent public speaker. Extrovert – Myers-Briggs rated ENTJ.
- Salsa dance instructor: 17 years. Proficient in the ability to communicate and instruct, matching challenge with the skill level of the student. Can systematically break down complicated concepts into discrete components which are more easily communicated.
- Improvisational comedy: improves leadership, public speaking, and handling unplanned situations.
- Hobbies include biking, running, and avid reading in the areas of Business, Science and Engineering, Economics, Anthropology, Sociology, and Psychology.