

George Alphonso Mitchell

<https://www.linkedin.com/in/georgealphonsomitchell/>

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LinkedIn: <https://www.linkedin.com/in/georgealphonsomitchell/>

Senior Real-Time Embedded Safety-Critical Software Systems Engineer

*GCE in ME, *ONC/HNC in EE/ME, *BS in EE/CS, *MS in Mgt/Fin (MBA+), *PPL (Private Pilot License).

Single Page Summary Resume

PROFESSIONAL OBJECTIVES and ACHIEVEMENTS:

I'm an **Engineer in Mechanical, Electrical, and Software Systems Engineer, and an Entrepreneur** with over **50 years of experience** designing and delivering innovative solutions across **power, computing, aviation, and aerospace systems**. I combine deep technical expertise with practical, results-driven strategies to develop **safety-critical, certifiable, and high-performance technologies**.

I help organizations:

- Design and integrate complex electrical, computing, and aerospace systems
- Develop and certify safety-critical and FAA-compliant technologies
- Optimize power generation and distribution systems
- Manage technical projects to ensure compliance, quality, and delivery
- Innovate new products from concept to deployment

I work with **Aerospace, Aviation, Power & Energy, Computing, and Non-Defense industries** to deliver solutions that meet the highest technical and regulatory standards.

SUMMARY of Recent Safety-Critical Systems Design, Development, Testing, V&V and SOI Certification:

<ul style="list-style-type: none">• Systems Engineering & Integration• FAA & Safety-Critical Systems Certification• SOI Audits• <i>ARP-4754/4761</i>,• <i>DO-178/278/254, DO-326/336/356</i>,	<ul style="list-style-type: none">• <i>DO-330/331/332/297, ISO 26262</i>• Power Generation/Transmission/Distribution/Protection.• Aerospace & In-Flight Systems Engineering• Technical Project Management & Compliance• Technology Innovation & Product Development
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SUMMARY of Development Skills:

<ol style="list-style-type: none">1. Systems Engineering2. Electrical & Mechanical Engineering3. Computer Engineering4. Aerospace Engineering5. FAA Certification6. Safety-Critical Systems7. Ind & Utility Power System Gen/Trans/Dist/Prot.8. In-Flight Entertainment Systems9. Project Management10. Technology Innovation	<ol style="list-style-type: none">11. Product Development12. Embedded and Bare Metal Systems13. Aviation Systems Engineering14. Compliance & Regulatory Standards15. Engineering Consulting16. Engineering Leadership17. Electronics Design18. Strategic Planning19. Risk Assessment & Mitigation20. Technical Solutions Architecture
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SUMMARY of Development Tool Chains & Environments:

[ARP4754 \(System Development\)](#), [ARP4761 \(System Safety Assessment\)](#), [DO-178B/C, DO-254 \(H/W Dev\)](#) •Requirements Mgt., •Texas Instruments Code Composer and Board Support Package (BSP), •Eclipse environment, •VxWorks Tornado, •GreenHills Multi; •ClearCase, •ClearQuest, •DOORS, •Rhapsody, •Intel x86 Assembly Language, •C/C++, •Linux, •LynxOS, •many RTOSs, •[BareMetal](#) •Python, •PERL, •AGILE environment, •CI/CD processes.

SUMMARY of Non-Aerospace Electrical and Mechanical Engineering (20 years):

•Industrial/Utility Electrical Power (Stationary) Generation, Transmission, Distribution and Protection Systems Engineer; •Aviation Flight Management Systems (FMS); •In-Flight Entertainment System (IFE); •Internet Cafes; •Aviation Electrical Power Systems; •Train Management Systems (Positive Train Control (PTC) Systems) and Incremental Train Control Systems (ITCS).

SUMMARY of Formal EDUCATION and VOCATIONAL TRAINING:

- **MS** in Business Management and Finance (MBA+).
- **BS** in Electrical Engineering and Computer Science,
- **HNC** (Higher National Certificate) in Electrical and Mechanical Engineering,
- **ONC** (Ordinary National Certificate) in Electrical and Mechanical Engineering,
- **GCE** (General Certificate of Education) in Mechanical Engineering

- **PPL (Private Pilot License)**, Jamaican Civil Aviation Authority (JCAA) and Federal Aviation Authority (FAA) certified.

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DETAILS of TECHNICAL EXPERIENCE (2010 – present)

Safety-Critical Systems Engineer (Contract):

July 2025– Open: [MicroComputer Data Processing \(dba MCDP\)](#), / [RishAar Consulting](#)

Recalled to perform additional delta SOI-2, SOI-3 and SOI-4 Safety-Critical Audit on [BlueOrigin](#) re-engineered NG-1 Autonomous Flight Termination Unit (AFTU), within the Autonomous Flight Safety System (AFSS) in compliance with FAA ARP4754.

Safety-Critical Systems Engineer (Contract):

Oct 2023 – Nov 2024: [MicroComputer Data Processing \(dba MCDP\)](#), / [RishAar Consulting](#)

Performed full SOI-2, SOI-3 and SOI-4 Safety-Critical Audits on [BlueOrigin](#) NG-1 Autonomous Flight Termination Unit (AFTU), within the Autonomous Flight Safety System (AFSS) in compliance with FAA ARP4754 “Guidelines for Development of Civil Aircraft and Systems” and ARP4761 “Guidelines and Methods for Conducting Safety Assessment Process on Civil Airborne Systems and Equipment”.

Safety-Critical Systems Engineer (Contract):

Oct 2022 – Dec 2, 2023: [Boeing](#), Everett, WA.

Performed Safety-Critical Analysis on Boeing 777-x model airplane in accordance with FAA ARP4754 “Guidelines for Development of Civil Aircraft and Systems” and ARP4761 “Guidelines and Methods for Conducting Safety Assessment Process on Civil Airborne Systems and Equipment”.

Embedded Cybersecurity System Engineer (Contract):

Jan 2022: – July 2022: [Thales eSecurity, Plantation FL.](#)

Performed cybersecurity evaluation on banking financial wire transfer systems.

Aug 2021: – Dec 2021: [Toyota Motors of North America \(TMNA\), Plano Tx.](#)

Performed cybersecurity verification & Validation on Hardware Secure Module (HSM).

Embedded Verification Embedded System Engineer (Contract):

Aug 2020: – July 2021: [Kearfott Corporation Guidance and Navigation Division](#), Pine Brook, NJ.

Developed DO-178 Planning Documents in conformance with SOI 1 for the company’s Next Generation Inertial Measurement Unit (NxIMU) and Next Generation Navigational Unit (NxNav); also migrating the development to Ansys SCADE Model Based Development Environment. Kearfott Corporation is a subsidiary of [Aeronautics Corporation of America](#), Oak Creek, WI.

Embedded Software Engineer (Owner/President):

May 2019: – Jul 2020: [MicroComputer Data Processing \(dba MCDP\)](#), Palm Bay, Florida;

Remote System Administration of smaller client networks, including website development and maintenance of websites, network control of CNC machines, Secure communications between those clients and their suppliers.

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Senior Embedded Software Engineer (Contract):

Sept 2018 – April 2019: [L&T Technology Services](#) @ [Thales Group](#) (Formerly [Thales Avionics InFlight Systems](#)), Melbourne, Florida;

Managed High-Level Requirements (HLRs), decomposed them to Low-Level Requirements (LLRs), Test Plans/Procedures, Test Cases, and Testing for In-Flight Entertainment (IFE) Systems.

Developed application code and Test Case/Procedures for In-Flight Entertainment (IFE) Services over Wireless networks. Performed Verification and Validation on the IFE software. Used Python, PERL, Linux/CentOS PCPDump and Wireshark.

Senior Embedded Software Engineer (Contract):

Mar 2018 – Sept 2018: [HCL America](#) @ [Rockwell Collins](#); Melbourne, Florida;

Developed High-Level Requirements (HLRs), decomposed them to Low-Level Requirements (LLRs), Test Plans/Procedures, Test Cases, and Testing for an advanced avionics display for the redesigned Boeing 737 aircraft, to DO-178 requirements; Used ARINC-429/615/653 protocols.

Developed application code and Test Case/Procedures. The application involved high reliability and high availability avionics systems with Micro-Controllers & Micro-Processors using InterProcessor Communication (IPC), serial communications, SPI, I2C, A/D, EEPROM, timers, real-time clocks, and other functions;

Developed High-Level Requirements (HLRs), decomposed them to Low-Level Requirements (LLRs), Test Plans/Procedures, Test Cases, Application Code, and Test Case/Procedures.

Embedded Software Engineer (Owner/President):

[MicroComputer Data Processing \(dba MCDP\)](#), Palm Bay, Florida;

Network Administration of smaller client networks, including website development and maintenance of websites, network control of CNC machines, Secure communications between those clients and their suppliers.

Safety V&V Software Engineer (Contract):

December 2016 – Mar 2018: [Adecco](#) @ [GE/Alstom Transportation](#); Melbourne, Florida;

Verified and Validated Safety Related Requirements, (HLRs and LLRs), Test Plans/Procedures, Test Cases, and Testing, for an Incremental Train Control Software (ITCS), using the [Cenelec](#) Standards.

Application code and Test Case/Procedures involved high reliability and high availability Safety Systems with Micro-Controllers & Micro-Processors using Inter-Processor Communication (IPC), serial communications, SPI, I2C, A/D, EEPROM, timers, real-time clocks, and other functions; Used C/C++.

Embedded Software Engineer (Owner/President):

February 2016 – December 2016: [MicroComputer Data Processing \(dba MCDP\)](#), Palm Bay, Florida;

Provided Software/Firmware Development, Testing, and Verification & Validation Services to [DO-178C](#) Guidelines;

System/Data Networks/Storage Area Network (SAN) Development, Administration and Maintenance, Website Development, Administration and Maintenance. Also provides Data Safety, Security, & Availability

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Services including Online Backup. **These services are provided on a Corp2Corp basis, onsite or offsite.** LAN bring-up and debugging were also included.

Provided on-going System/Network Development, Administration and Maintenance, Website Development, Network Administration and Maintenance, Device Drivers, and Bios Development. Used C/C++.

Embedded V&V Software Engineer (Contract):

July 2015 – January 2016: [eInfochip](#) @ [Rockwell Collins](#); Cedar Rapids, Iowa;

Developed High-Level Requirements (HLRs), decomposed them to Low-Level Requirements (LLRs), Test Plans/Procedures, Test Cases, and Testing for advanced avionics display for the redesigned Boeing 737 aircraft, to [DO-178C](#) requirements. Performed detailed requirements analysis and traceability for IMA components

Validated Application code and Test Case/Procedures., Application involved high reliability and high availability avionics systems with MicroControllers & MicroProcessors using InterProcessor Communication (IPC), serial communications, SPI, I²C, A/D, EEPROM, timers, real-time clocks, and other functions; Used C/C++.

Embedded Software Engineer (Owner/President):

October 2013– current: [MicroComputer Data Processing \(dba MCDP\)](#), Rancho Santa Margarita CA.;

Provided Software/Firmware Development, Testing, and Verification & Validation Services to DO-178C Guidelines.

System/Data Networks/Storage Area Network (SAN) Development, Administration and Maintenance, Website Development, Administration and Maintenance. Also provides Data Safety, Security, & Availability Services including Online Backup. **These services are provided on a Corp2Corp basis, onsite or offsite.** LAN bring-up and debugging were also included.

Provided on-going System/Network Development, Administration and Maintenance, Website Development, Network Administration and Maintenance, Device Drivers, and Bios Development. Used C/C++. **Embedded**

Software Engineer (Contract):

Embedded Software/Firmware Engineer (Contract):

Sept 2012 – Sept 2013 [Astronics, Advanced Electronics System \(AES\), Inc.](#), Kirkland, Washington;

Conducted [DO-178C](#) level A Software Systems Design & Development of a Switched Synchronous Induction Machine to be used as an Electrical Power Starter/Generator System (EPSGS) targeted at Corporate jet aircrafts. The EPSGS would perform as an electrical starter for the jet engine, then transition to perform as an electrical power generator when the engine was operational. Developed High/Low-Level Requirements, decomposed them to Application code and Test Case/Procedures. The application was [BareMetal](#) since timing constraints did not allow for formal RTOS. Hardware design was based around dual Texas Instruments TMS-570 Micro-Controllers with Inter-Processor Communication (IPC), serial communications, SPI, I²C, A/D, EEPROM, timers, real-time clocks, and other functions; The MicroControllers managed Data Acquisition, Digital & Analog Signal Processing, 3-phase Switching, System Health, and Aircraft Communications. IDE was Texas Instruments Code Composer and Board Support Package (BSP). Participated in PCBA bring-up and debugging. Used C/C++.

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Embedded Software Engineer (Contract):

June 2012 – Sept 2012: to [HCL America/Cymer, Inc.](#), **Rancho Bernardo, San Diego CA.;**

Conducted Software Testing, and Verification & Validation of the PLC system used to control various aspects of the Light Generation Process. Used Manual Test Procedures and automated Regression Testing using Python test scripts. Used SVN for source code management and JIRA for Defect Tracking. Used C/C++, software development, application support & maintenance, application development, application Verification & Validation.

Embedded Software Engineer (Owner/President):

October 2011 – June 2012: [MicroComputer Data Processing \(dba MCDP\)](#), **Rancho Santa Margarita CA.;**

Provided Software/Firmware Development, Testing, and Verification & Validation Services to DO-178C Guidelines;

System/Data Networks/Storage Area Network (SAN) Development, Administration and Maintenance, Website Development, Administration and Maintenance. Also provides Data Safety, Security, & Availability Services including Online Backup. **These services are provided on a Corp2Corp basis, onsite or offsite.** LAN

bring-up and debugging were also included.

Provided on-going System/Network Development, Administration and Maintenance, Website Development, Network Administration and Maintenance, Device Drivers, and Bios Development. Used C/C++.

Embedded Software Engineer (Contract):

August 2011– Oct 2011: [Technisource Engineering Services](#), **Fort Lauderdale, FL.;**

Conducted DO-178C Software Development, and Verification & Validation of Secondary Power Distribution System (SPDS) for the client, Bombardier Aircraft. The project originated from [Hamilton Sundstrand](#), **Rockford, IL.** Used Microsoft's Visual Studio Visual Basic for test scripts development. Used Unified Modeling Language (UML) Methodology, and DOORS/Rhapsody. TCP/TTP Aircraft communications network protocols. Used VxWorks Tornado IDE tools with BSP support. Used C/C++.

Embedded Software Engineer (Owner/President):

Oct 2010 – August 2011: [MicroComputer Data Processing \(dba MCDP\)](#), **Rancho Santa Margarita CA.;**

Software/Firmware Development, Testing, and Verification & Validation Services to [DO-178C](#) Guidelines; System/Data Networks/Storage Area Network (SAN) Development, Administration and Maintenance, Website Development, Administration and Maintenance. Also provides Data Safety, Security, & Availability Services including Online Backup. **These services are provided on a Corp2Corp basis, onsite or offsite.**

Provided on-going System/Network Development, Administration and Maintenance, Website Development, Network Administration and Maintenance, Device Drivers, and Bios Development. Used C/C++.

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SUMMARY of TECHNICAL EXPERIENCE (2000 – 2010).

Embedded Software/Firmware Engineer (Contract):

- **Jan 2000 – Dec 2010: Multiple Avionics and Network and Storage Companies, Nationwide:**
- **Nov 2009: [Hamilton Sundstrand](#), San Diego, CA.;**
 - [DO-178C](#) Testing, Gap Analysis, and Verification & Validation of the APU (Aircraft Auxiliary GasTurbine/Generator Power Plant) FPGA, [FADEC](#) & EEC Controller Software.
- **Jun 2008: [Avidyne Corp.](#), Lincoln MA.;**
 - [DO-178C](#) Testing and, Verification & Validation of the Entegra II's Flight Deck Systems and LynxOS-178 Embedded Real-Time Operating System, using Open Group Test Suite (OGTS).
- **Feb 2008: Crane Aerospace (Hydro-Air), Burbank CA.;**
 - [DO-178C](#) Testing, Gap Analysis, and Verification & Validation of the Boeing 787 Landing Systems, using a combination of in-house and off-the-shelf tools, including Microsoft C/C++ for automating testing for certification.
- **Aug 2007: [Hamilton Sundstrand](#), Rockford, IL.;**
 - Remote Power Distribution System (RPDS) for the [Boeing](#) 787 aircraft project, using VxWorks kernel extensions with Board Support Package (BSP) provided by General Electric Corporation.
- **May 2006: [AOL Wireless.](#), Seattle WA.;**
 - SIM/Smartcard Backup utility for mobile phones, using MS-Visual Studio. Used C/C++/C#/Java (.Net Framework) to develop a utility to access Mobile Phone SIM via RS232C and other interfaces.
- **May 2003 : [Advanced Digital Information Corp.](#), Redmond WA, and [Englewood CO.](#);**
 - DVT and SVT Qualification of large, medium, and small Automated Tape Libraries on Storage Area Network
- **Feb 2001: [Brocade Communications](#), San Jose Ca.;**
 - Port SAN Switch firmware from VxWorks to Linux (for SCSI and RAID devices over Fibre Channel);
- **Sept. 2000: [Thales Avionics In-Flight Systems](#), Tustin Ca. - (Formerly [Thompson-Sextant InFlight Systems](#), formerly [BE Aerospace](#)), Tustin, Ca.;**
 - Automatic Test Equipment (ATE) for Video on Demand In-Flight Entertainment System using SCSI, RAID storage, Video over IP.

Embedded Software/Firmware Engineer (Full-Time) (1968 - 2000):

- **Jan 1977 – Dec 2000: Multiple Business Computer Companies, Southern California:**
 - Developed hardware and Software Systems for general business computer systems, developed Test Equipment for Storage Devices, Device Drivers for Storage Devices, and LANs, WANs, SANs, and Storage Libraries; developed Test Equipment for Storage Devices. Supported Development of [Toshiba's](#) Super [Smart-Card/SIM-Card](#) and related devices, received initial training in Tokyo, Japan; Worked with [GemPlus/GemAlto SmartCard](#) also and received training in LaCiotat, France. [GemPlus/GemAlto](#) was acquired by [Thales Group](#) in April 2019.

Electrical Power Generation, Transmission, Distribution and Protection Engineer (Full-Time):

- **Jan 1975– Jan 1976: [Jamaica Public Service Company \(JPS\)](#), Jamaica WI.:**
 - Performed duties relating to the protective relaying of the entire 1000MW Island-wide Power Grid, 13.8 KV 50 Hz AC Transmission and 480 VAC Distribution network.

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- **Jan 1970– Jan 1972:** [Revere Jamaica Alumina \(Revere\) Industrial](#) Power-Plant;
 - Performed duties of a Power Plant Engineer operating in the 30MW – 50MW Grid, 13.8 KV 60 Hz AC Transmission and 480 VAC Distribution grid, including managing the powerplant operation to provide the Bayer Process operations with all resources required for them to successfully produce Aluminum Oxide (Alumina) for export.
 - I was a member of the team commissioning the power plant to certify it for operation.
- **Jan 1968– Jan 1970:** [Alumina Partners of Jamaica \(ALPART\) Industrial](#) Power-Plant;
 - Performed duties of a Power Plant Engineer operating in the 30MW – 50MW Grid, 13.8 KV 50 Hz AC Transmission and 480 VAC Distribution grid, including managing the powerplant operation to provide the Bayer Process operations with all resources required for them to successfully produce Aluminum Oxide (Alumina) for export.
 - I was a member of the team commissioning the power plant to certify it for operation.

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DETAILS of Formal EDUCATION

Jan. '76 – Jan. '77: Master of Science in Business Administration and Management (MS Management/MBA), major in General Management, minor in Finance; [Polytechnic Institute of New York \(New York University Polytechnic School of Engineering \(NYU Poly\)\)](#), 33 Jay Street, Brooklyn, NY 11201.

Jan. '73 – Jan. '75: Bachelor of Science in Electrical Engineering and Computer Engineering (BSEE), major in Electrical Power, minor in Computer Engineering; [Polytechnic Institute of Brooklyn \(New York University Polytechnic School of Engineering \(NYU Poly\)\)](#), 33 Jay Street, Brooklyn, NY 11201.

Jun. '67 – Jun. '68: [Higher National Certificate in Electrical Engineering Technology \(HNC\)](#), major in Electrical Power Engineering, minor in Mechanical Engineering; University of Technology ([UTECH](#)), formerly [College of Arts Science and Technology \(CAST\)](#), Kingston Jamaica, W.I.;

Jun '65 – Jun '67: [Ordinary National Certificate in Electrical and Mechanical Engineering Technology \(ONC\)](#); major in Electrical Engineering and Mechanical Engineering Technologies (ONC). University of Technology ([UTECH](#)), formerly [College of Arts Science and Technology \(CAST\)](#), Kingston Jamaica, W.I.;

Jun '60 – Jun '64: [General Certificate of Education \(GCE\)](#): major in Mechanical Engineering Technology Kingston Technical High School, Kingston Jamaica, W.I.;

DETAILS of VOCATIONAL TRAINING

1962 - 1963: [Jamaica Combined Army and Air Cadet Force \(JCAACF\)](#) (during high school), (**ROTC equivalent**):

Completed Basic and Advanced Army Field Craft Training, Flight Ground School, and First Aid (CPR) Training; in 1962, won awards for proficiency (second place in Jamaica's Best Twelve Cadets for 1963; and in competition shooting was 2 points below marksman, was awarded the First-Class Rifleman badge and lanyard (1963).

1975: **Jamaican Private Pilot License** (completed additional requirements for private pilot license in 1975).

1985 - 1990: **H&R Block**, Irvine Ca.,; Completed Income Tax Preparation Training.

1985 – 1990: **Walter & Lee Reality**, Irvine Ca.; Realtor Training.

1985 – 1990: **various sources;** Creative Finance Training, Quality Improvement Process, Software Quality Assurance, Executive Development Programs.

Nov '87: [Western Digital Corporation](#), Irvine, Ca., Executive Development Program, Irvine, California;

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Oct '87: Philip Crosby Associates, Quality Improvement Process Management College, San Jose, California;

Sep. '87: Control Data Institute for Advanced Technology, Software Quality Assurance, San Francisco, California.

Sept 1975: Rutair Flight School, Jamaica WI.

Completed 40 hours Flight Time at Rutair Flight School in Jamaica and Examination Requirements for the Jamaica Civil Aviation Authority (JCAA), and later, the Federal Aviation Authority (FAA) in the USA.

May 2006– March 2007: GemPlus Smart/SIM Card Certificates:

Java SIM Card Administration, Java SIM Card Applet Development, Java SIM Card STK and OTA **Training.** [GemPlus/GemAlto](#) was acquired by [Thales Group](#) in April 2019.

DETAILS of SCHOLARSHIPS

Sep. '60 – Jul. '64: Government of Jamaica; to attend Kingston Technical High School;

Sep. '66 – Jul. '68: [ESSO Standard Oil](#) (deregulated to: **Exxon, Mobile, Chevron & Texaco**);

Pursued ONC and HNC Certificates at the [College of Arts Science and Technology \(CAST\)](#), now the University of Technology ([UTech](#)), Kingston Jamaica, W.I.;

May '75: Howard University, in Washington, D.C., United States.; to pursue MBA.

(I could not accept the scholarship at the time due to personal family problems back home in Jamaica that I had to help with; I continued the following year, 1976, on a student loan from the government of Jamaica after problems were mitigated, and returned to my Alma Mata, [Polytechnic Institute of New York \(New York University Polytechnic School of Engineering \(NYU Poly\)](#), 33 Jay Street, Brooklyn, NY 11201, graduating in 1977.)

----- End of George Mitchell's Resume -----