

DAVID BERRIEN
2621 SW 107TH CT. MIAMI, FL 33165
(786) 286-8818 DAVE@INCREMENTAL-INNOVATIONS.NET

Overview

Skilled Engineering professional - special emphasis on selection, design and procurement of test equipment, tooling, and fixtures for testing of aircraft instruments and accessories. Design of Test Stands, adapter harnesses, tooling and test fixtures, including defining an appropriate measurement strategy, selection and sourcing of required sensors and transducers, and integration of selected devices into a functioning system. Design and fabrication of supporting tooling and mechanical fixtures, custom electronics and adapter harnesses as required. Advanced skills in Reverse Engineering, Data Acquisition and Automation, Calibration and Metrology. Assistance to Quality with Warranty Claim Investigations; Customer Service with Technical Support. Proficient in troubleshooting and Root Cause analysis.

Strong analytical thinker with a broad, deep knowledge base. Creative, good at lateral thinking. Adaptable, disciplined, reliable and trustworthy. Personable, friendly and polite. Excellent communication skills. Known for ability to share knowledge and improve the performance of those around me.

Significant Accomplishments

Design, fabrication and deployment of the following:

- Interface adapter for Resolver alignment of 28B545-x APU Generator (used on 737-NG) (original design, not dependent on Honeywell's proprietary resolver interface hardware).
- Automated Coil Winding machine for A320 Gen / IDG rotor (reduced scrap rate from 80% to <1%)
- Significant contributions to the Development of a Fuel Nozzle Test facility.

EMPLOYMENT / EXPERIENCE

1st Choice Aerospace / VSE Aviation Services (Miramar)*	Dec 2019 to Jan 2021
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- Engineer - Design and deployment of test adapters, harnesses, tools and test fixtures for Hydraulic, Power Generation, Pneumatics, Fuel and Electromechanical Accessories.
- Successfully returned an IRIS1200 Automated IRU Test System to operational status.

High Standard Aviation / Ametek HSA / Ametek MRO Florida *	Nov 2003 to Dec 2019
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- Engineer III - Design and deployment of hundreds of test adapters, harnesses, tools and test fixtures for Hydraulic, Power Generation, Pneumatics, Fuel and Electromechanical Accessories.
- Significant contributor to the growth of High Standard Aviation to a desirable company acquired by Ametek MRO. Retained and promoted after acquisition and subsequent merger(s).
- Advised and assisted with logistics and space planning for the move and integration of several major Test Stands to a new facility.

Aero Controls Avionics	Jan 2000 to Nov 2003
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- Avionics Technician - Testing, troubleshooting, repair and modification of Aviation Electronic components to component level. Circuit Board Repair as needed. Advanced Instruments, including Air Data Computers (digital and analog), EPR transmitters, VSI, RDDMI, ADI, HSI, etc.

Paramount Aviation / Avborne Accessories *	Sept 1996 to Jan 2000
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- Avionics Technician - Testing, troubleshooting, repair and modification of Aviation Electronic Power Generation and Control components to component level. Circuit Board Repair as needed. GCUs, BCUs, VRs and other Power Gen. controls, Battery Chargers, Window Heat Controllers, Ignition Exciters and more.
- Selected by Management to head a new Automated Test Department using an Avtron UnivATE Power Generation Test Bench. Generated several updates for Avtron correcting previously undetected software and hardware problems. Several commendatory letters from customers for excellent service.

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EDUCATION

US Navy	Advanced First Term Avionics (AFTA-A1) - 18 months of Advanced Electronics and Avionics training; Specific avionics systems training for the following US Navy aircraft: F-4J/S Phantom II, A-6E Intruder, EA-6B Prowler, and TC-4C Academe; Communications (AN/ARC-159 AM/FM UHF/VHF Dual Radio transmitter / receiver w/encrypted spread-spectrum communication capability), Navigation devices (including Radar Altimeter, ADF, VOR, ILS, TACAN, Data Link / ACLS, IFF, w/ Mode 4 secure transponder), Electronic Countermeasures devices (AN/ALR-45 Radar Warning Receiver, AN/ALQ-126 Active Countermeasures Receiver/Transmitter) Additional courses / training completed: F-4 J/S Wiring Harness repair, High Reliability Soldering / Multilayer Circuit Board repair ("D" card) (per MIL-STD-2000); Gulfstream G-159 Systems training (Gulfstream Factory training)
DeVry Institute of Technology	AA Electronics Technology, (completed 1 yr of a 3 year program); AC and DC Circuit Analysis, Calculus, Semiconductor Devices, Analog and Digital Circuit Design, Computer Programming (FORTRAN); Lab Work - Design, layout, etching and fabrication of circuit boards for High-Fidelity Audio Amplifier.
Seminole High School	Diploma - Specific training in Chemistry (2 yrs), Physics (2 yrs), Algebra, Algebra II and Trigonometry, Drafting / Mechanical Drawing (2 yrs), much interesting lab work in Physics, Drafting, and Chemistry.
Self-Study / Work Experience	Deep research into specific technological domains: Hydraulics, Pneumatics, Electrical power generation, Digital and Analog Electronics, Signal conditioning and Data Acquisition. Computer Programming, PC and Microcontrollers, using Visual BASIC, C, C++, LabVIEW and other languages, Circuit and device Simulation with LTSpice, Database and Spreadsheet design, Technical and Business Writing, Web Design
Other Interests	Linux, IoT, FEA, Photography and Video, Animation, Thermodynamics and Turbomachinery, Ultrasonics, Automotive technology, Alternative Energy and micro-generation. Woodworking, DIY CNC, SDR (Software Defined Radio), Antique tools, Retro computing, Motorcycling, Health and Human Physiology

* Indicates organizational name changes due to acquisition / merger

Additional / Other Information

More detailed work history and other information available online at LinkedIn
<https://www.linkedin.com/in/david-berrien>

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