

# Miguel A. Brown

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**SUMMARY:** Marine Corps veteran with over fifteen years of highly specialized mechanical, electrical, and programming experience, education, and on-the-job training. Highly skilled and versatile in mechanical theory and application. Committed to an unprecedented approach to evaluating various problems and creating multiple solutions to any and all tasks. Accountable and ambitious, ready for a fast paced learning environment.

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## HIGHLIGHTS OF QUALIFICATIONS

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- Over fifteen years of mechanical, hydraulic, pneumatic, electrical, programming and fabrication experience.
- Over five years of highly specialized technical schooling/ OJT in aeronautical physics/principals, aeronautical/industrial mechanics, hydraulics, and pneumatics.
- Proven leader that demonstrates good principles, ethical judgment, and communications skills.
- Knowledge, training and practical experience with:
  - Computerized databases for tracking, ordering, receiving and reporting of materials, status updates, supplies and shipments.
  - Troubleshooting, inspecting, and repairing aeronautical/automotive components with use of technical publications, blue prints, schematics, and training/experience.
  - Software & Tools: Command Line Interface tools, Visual Studio Code, Xcode, Microsoft Office Suite, Millbrook's RE Pro System (REPS), NX11, AutoCad, MATLAB, LabView.
  - Languages / Protocols: CAN bus, Modbus TCP/IP, Javascript, Swift, SwiftUI, Java, C++.
  - Hardware: DC/AC motors, actuators, solenoids, drivers LabJack T7 pro, dSPACE RapidPro, dSPACE MicroAutoBox II.
  - Prototype builds of axels, and drive shafts, test stands, and test equipment.
  - Operation of various testing and analytic equipment and procedures

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## PROFESSIONAL EXPERIENCE

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### **DANA Incorporated**

4/2017 – 8/2024

#### Advanced Engineering Technician

Supported new product development builds and tests according to specifications, or determined new specification utilizing highly specialized tools, blue prints, and intellectual mechanical logic.

- Lead department 5S and safety audits, and managed test vehicle fleet logs and documents.
- Maintained inter-departmental training logs and documents.
- Created and modified 3D models utilizing NX11.
- Programmed and ran mechanical and electric axle dynamometer.
- Experience in multiple departments/functions working and training co-workers and co-ops to include analytical testing labs, classified prototype builds, and sample builds.

**DANA Incorporated/DANA Holding Corp./ Manpower Professional** 3/2015 – 4/2017Samples Engineering Technician/Prototype Assembly Engineering Technician

Build prototype axels and drive shafts according to specifications, or determine new specification utilizing highly specialized tools, blue prints, and intellectual mechanical logic.

- Traveled to customers to trouble shoot, inspect, and repair exclusive DANA products.
- Experience in multiple departments/functions working and training co-workers and co-ops to include analytical testing labs, classified prototype builds, and sample builds.
- Volunteering as Controls advisor for DANA sponsored FIRST Robotics team.

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**INDEPENDENT INITIATIVES**


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**Luckey Logic LLC** 4/2017 – PresentiOS Developer / Web Developer / Entrepreneur

Developed and implemented SwiftUI applications tailored to enhance Advanced Engineering tasks at DANA.

- Engineered applications with Bluetooth-enabled features, CAN Bus communication, and QR code integration.
- Developed a wireless mobile interface for a data acquisition device, leveraging MODBUS TCP/IP for real-time communication and control of electric vehicle components under test.
- Utilizes Firebase for backend solutions.
- Initiates the integration of NFC capabilities for improved application functionality.

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**MILITARY**


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**United States Marine Corps** 10/2007 – 7/2012Airframes Mechanic

Inspect and maintain helicopter airframes and airframe components. Accomplish duties relating to flight line operation. Execute troubleshooting inspection, and complete repair or replacement of helicopter braking systems, hydraulic/pneumatic systems and/or components.

- Maintained, inspected, and repaired helicopter hydraulic/pneumatic systems and components in accordance with all policies, procedures, regulations, OSHA and other governing entities.
- Modified aircraft structures, systems, components, following drawings, schematics, charts, engineering orders, and technical publications/bulletins.
- Used blueprints, schematics, maintenance publications, and computer-generated technical data for maintenance, inspection, and repair of systems and equipment.
- Maintained, repaired, and rebuilt aircraft structures, functional components, and parts such as wings and fuselage, rigging, hydraulic units, electrical systems, gaskets, and seals.
- Logged and recorded all required maintenance performed in accordance with applicable maintenance publication/inspection cards, and local procedures.
- Fabricated, and repaired structural aircraft components with sheet metal or composite materials utilizing required specialized tools and hazardous materials.
- Took charge as the training supervisor, tracking and enforcing all required training classes, OJT, medical appointments, and documentation required to maintain all maintenance procedures in accordance with OSHA, military guidelines as well as company safety and health policies.
- Supervisor of tool and parts shop. Tracked improved efficiency in logistics and care of critical/flight essential tools and components. Directed and delegated responsibilities to subordinates. Provided required training and counseling.

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**EDUCATION / TRAINING**

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<b>University of Toledo</b>	Toledo, OH
Medicinal Biological Chemistry / Pre Medical	8/2012 – 8/2014
Computer Science / Electrical Engineering	Current
<b>Marine Corps Institute</b>	Pensacola, FL
Aviation Maintenance Technology	
<b>Naval Aviation Technical Training Center</b>	Pensacola, FL
Aviation Structural Mechanics	
<b>Center for Naval Aviation Technical Training</b>	Jacksonville, NC
Airframes Organizational Maintenance	