

FAVOUR ONECHOJO OCHEJA

Aerospace Engineer | Aviation Maintenance, Engineering & Operations | Quality Systems

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PROFESSIONAL PROFILE

Aerospace engineer and aviation operations professional with an M.S. in Aviation and Aerospace Management from Purdue University, a B.Eng. in Aerospace Engineering, and formal software engineering training. Current career progression at GA Telesis from Composite Shop Inventory Operations into Quality Control within an FAA Part 145 MRO environment. Experience spans aircraft maintenance support, aviation materials and traceability, repair-station workflows, space-propulsion research, safety management, advanced air mobility, and software-enabled operational support. Co-author of a 2025 ASEE conference paper on hydrogen-powered aviation education and member of a Purdue team awarded second place in the 2025 TRB Airport Cooperative Research Program University Design Competition for an eVTOL airport feasibility toolkit. Builds practical systems that connect people, parts, technical records, quality, and operational readiness.

Core Expertise: Aviation MEO • Quality Control • FAA Part 145 MRO Operations • Aircraft Materials & Traceability • Safety Management Systems • Advanced Air Mobility • Sustainable Propulsion • Research & Technical Writing • Software Development • Data Analysis • Human Factors & Systems Thinking

PROFESSIONAL EXPERIENCE

Quality Control Inspector (Internal Progression) |

2026–Present

GA Telesis – Composite Repair Station | Fort

Lauderdale, Florida

- Selected to progress from composite-shop inventory operations into quality control, reflecting strong performance in materials traceability, documentation discipline, and maintenance support.
- Current focus includes inspection readiness, part- and serial-number verification, receiving documentation, FAA Form 8130-3 review, work-order closeout, quarantine controls, and escalation of discrepancies.
- Collaborate with maintenance, engineering, logistics, and quality personnel to support compliant repair-station operations and reduce the risk of documentation, configuration, and material escapes.
- Apply systems-thinking and human-factors principles to identify process weaknesses, strengthen controls, and support a safety-focused quality culture.

Composite Shop Inventory Operations | GA Telesis

Oct 2025–2026

– Composite Repair Station | Fort Lauderdale, Florida

- Supported technicians and inspectors by issuing aircraft parts, tooling, shop supplies, and controlled materials in a composite MRO environment.
- Performed inventory verification, cycle counts, free-stock checks, shelf-life monitoring, tool-return checks, pick-ticket control, material segregation, and stockroom housekeeping.
- Coordinated with receiving, maintenance, logistics, and quality teams to resolve parts-availability, traceability, and documentation issues affecting workflow.
- Developed practical workflow tools including the Stockings priority-request platform, standardized checklists and master logs, work-order closure controls, and a computer-vision fastener-counting prototype.

Aircraft Mechanic Trainee | Executive Air

Sep 2025–Oct 2025

Management Services | Florida

- Assisted maintenance personnel with aircraft inspection and maintenance-support activities under supervision, including tooling, parts, materials, housekeeping, and documentation support.
- Reinforced practical understanding of maintenance discipline, FOD prevention, task preparation, and safe work practices in an operational aviation environment.

Research Engineer, Propulsion Department

Sep 2019–Jan 2024

(Engineer II–Engineer I) | National Space Research

and Development Agency (NASRDA/CSTD) | Nigeria

- Conducted research and technical analysis related to propulsion, spacecraft systems, fuel and performance considerations, and emerging aerospace technologies.

- Produced technical reports, research summaries, presentations, and data analyses to support engineering discussions and program activities.
- Collaborated across engineering disciplines and applied aerospace, analytical, and software skills to research and development work.

Aircraft Maintenance Engineering Support (NYSC)

Jan 2018–Aug 2019

| **Nigerian Air Force** | *Nigeria*

- Supported aircraft maintenance and line-inspection activities under authorized personnel, with emphasis on safety, documentation, tool discipline, and team coordination.
- Built foundational experience in airworthiness, maintenance troubleshooting, operational risk awareness, and military aviation work practices.

ACADEMIC LEADERSHIP & RESEARCH SUPPORT

SURF Graduate Assistant | Purdue Engineering

Summer 2024

Undergraduate Research Office | *West Lafayette, Indiana*

- Mentored undergraduate researchers, supported program logistics, coordinated symposium activities, and helped students communicate technical work effectively.

Lead Coordinator | Purdue University Global

2024–2025

Science Partners | *West Lafayette, Indiana*

- Coordinated orientation, dinners, community events, and peer-support activities for an international learning community.
- Strengthened student engagement through inclusive leadership, cross-cultural communication, scheduling, and event execution.

SELECTED RESEARCH, ENGINEERING & DIGITAL PROJECTS

Feasibility Navigation Toolkit for eVTOL

2025

Operations at Airports | Purdue University / TRB ACRP

- Contributed to a multidisciplinary airport-planning and advanced-air-mobility project that earned second place in the 2025 TRB ACRP University Design Competition, Airport Management and Planning category.
- Researched airport infrastructure feasibility, energy requirements, operational readiness, safety considerations, and pathways for integrating eVTOL operations at existing airports.

Preparing Aviation Students for the Hydrogen-

2025

Powered Future | Purdue University / ASEE

- Co-authored and presented a conference paper identifying technical, safety, regulatory, sustainability, and workforce competencies needed for hydrogen-powered aviation.
- Connected engineering education requirements with evolving propulsion technologies and aviation-industry needs.

Stockings – Aviation Maintenance Priority Request

2026

Platform | Independent / MRO Workflow Systems

- Designed and developed a React/Firebase prototype for urgent maintenance parts, tooling, missing-tool, inventory, and escalation requests.
- Structured request priorities and visibility to reduce stockroom-window congestion and improve communication between maintenance leads and materials personnel.

GA Stockings Vision – Fastener Counting Prototype

2026

| Independent / Computer Vision

- Developed an early computer-vision workflow for counting washers, rivets, nuts, and related aviation hardware using Python, YOLO/Ultralytics, and Streamlit.
- Focused on reducing manual-counting time while preserving human verification and inventory-control accountability.

Safety Management System Development | Dayton

2024–2025

International Airport Academic Project

- Contributed to an airport SMS framework covering safety policy, risk management, assurance, promotion, incident reporting, and continuous improvement.

EDUCATION

Master of Science, Aviation and Aerospace Management | Purdue University | *West Lafayette, Indiana*

May 2025

- Graduate focus: aviation safety and risk, sustainability, transportation security, leadership, research methods, quantitative evaluation, international regulation, and emerging aviation systems.

Diploma, Software Engineering | ALX / Holberton School | *Remote*

Jan 2024

- Training in software development, front-end engineering, programming, version control, problem solving, and collaborative development.

Bachelor of Engineering, Aerospace Engineering | National Aerospace University – Kharkiv Aviation Institute | *Kharkiv, Ukraine*

Jun 2018

- Concentration in aircraft engines and power plants; supporting study in aircraft systems, propulsion, maintenance, and aerospace engineering fundamentals.

Certificate of Completion, Flight Dispatch and Ground Handling | Avel Flight School | *Chennai, India*

May 2014

PUBLICATION

Ocheja, F., & Yother, T. L. (2025). Preparing Aviation Students for the Hydrogen-Powered Future: Key Competencies for Safety, Efficiency, and Sustainability. 2025 ASEE Annual Conference & Exposition. DOI: [10.18260/1-2--57063](https://doi.org/10.18260/1-2--57063)

AWARDS & RECOGNITION

- Second Place Team Award – 2025 TRB Airport Cooperative Research Program University Design Competition, Airport Management and Planning category, for “Feasibility Navigation Toolkit for eVTOL Operations at Airports.”
- First Place – Essay Competition, Avel Flight School, 2014.
- Certificate – Horizon 2014 Competition, Avel Flight School, 2014.
- Third Place – Simulator Ride Competition, Avel Flight School, 2014.
- Recognition for Outstanding Participation, Avel Flight School, 2014.

PROFESSIONAL TRAINING & AFFILIATIONS

- FAA Part 139 Compliance Training – 2024.
- Aviation Safety & Risk Management Workshop – 2024.
- CISTAR Mentoring-in-Action – 2024.
- Member, Nigerian Institute of Space Engineers (MNISEng) – since 2020.
- CompTIA A+ Certification – 2010.

TECHNICAL & PROFESSIONAL SKILLS

Aviation and MRO: FAA Part 145 repair-station operations; quality-control fundamentals; FAA Form 8130-3 awareness; receiving and documentation workflows; parts traceability; inventory control; cycle counting; shelf-life control; tooling control; work-order support; safety management systems; human factors; risk assessment.

Engineering and Research: Aerospace propulsion; aircraft systems; advanced air mobility; sustainable aviation; hydrogen aviation; technical research; literature review; requirements analysis; root-cause thinking; systems thinking; technical writing and presentations.

Software and Data: Python; JavaScript; React; HTML/CSS; Firebase; Streamlit; YOLO/Ultralytics; MATLAB; Tableau; Microsoft Excel, Word, and PowerPoint; Git/GitHub; Smart145; Quantum ERP.