

# Dolapo Ogunsami

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## EDUCATION

### Arizona State University

*Bachelor of Science in Physics, Minor in Mathematics*

Tempe, AZ

July 2023 – May 2025

### Rutgers University

*Bachelor of Science in Mechanical Engineering*

New Brunswick, NJ

Sep. 2016 – Aug 2020

## EXPERIENCE

### Maintenance Manager

*United States Air Force*

Oct 2022 – June 2023

*Edwards, CA*

- Managed and tracked daily aircraft configuration, inspections, and maintenance records to ensure safety compliance and accurate documentation.
- presented to and interacted with cross-functional teams of both technical and non-technical staff at all organization levels
- Observed work and monitored gauges, dials, and other indicators to ensure that operators conform to production or processing standards
- Conferred with other supervisors to coordinate operations and activities within or between departments
- Demonstrated and enforced safety and sanitation regulations

### Maintenance Manager

*United States Air Force*

Oct 2020 – Oct 2022

*Kadena AB, Japan*

- Managed 154 manned fabrication shop to provide on-the-spot fabrication maintenance of aircraft, equipment, and munitions in support of the Air Force's largest combat wing.
- Led 115 manned ground equipment maintenance shop through product maintenance and delivery in support of joint missions with the Air Force, Navy, and Marine Corps
- Applied Scrum Methodology ensuring operational efficiency of electrical equipment and mechanical systems through timely inspection and repair
- Implemented workplace safety policies and standards

### Reliability Engineering Intern

*Philadelphia Energy Solutions*

May 2019 – July 2019

*Philadelphia, PA*

- Supported senior engineers in troubleshooting and resolving critical design issues, ensuring project milestones were met on time.
- Conducted root cause analysis of failures, recommended improvements, and supported equipment reliability upgrades.
- Enhanced team collaboration by designing and implementing shared online workspace for project documentation.
- Troubleshot reliability issues with fixed equipment at the Philadelphia Refinery

## PROJECTS

### Human Gait Analysis Tool | *Matlab, SimScale, Git*

June 2025 – Present

- Developing application that will take a video recording of a person running as input, record the positions of body components (shin-knee angles, spine, etc.), and feed information back to the user

### Orbital Dynamics Simulator | *Python, VS Code, Git*

April 2025 – Present

- Developed a program that generates orbit trajectories of celestial objects based on gravitational forces
- Developing application where users can input celestial objects into a system and observe gravitational interactions over time-spans

### Charged Particle in Magnetic Field | *Python, VS Code, Git*

March 2025 – April 2025

- Simulated the effect of a magnetic field on the trajectory of charged particle traveling through a key component of a scanning electron microscope

### Mathematical Modeling of Pulsed Immunotherapy for Bladder Cancer | *Matlab*

Oct. 2024 – Nov. 2024

- Employed numerical analysis to test the effectiveness of a proposed immunotherapy treatment model for eliminating bladder cancer cells

## TECHNICAL SKILLS

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**Languages:** Java, Python, C/C++, SQL, JavaScript, HTML/CSS, R, FORTRAN

**Frameworks:** React, Node.js

**Developer Tools:** Git, Matlab, Google Cloud Platform, VS Code, Visual Studio, Docker, Jupyter, Latex

**Libraries:** Pandas, Numpy, Matplotlib, Sciipy