

JONATHAN EDWARDS  
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## PROFESSIONAL SUMMARY

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Mechanical engineering student with strong hands-on experience in aircraft systems, precision manufacturing, and embedded automation. Skilled in CAD, CNC machining, Python programming, and Cybersecurity. Worked on real-world aircraft control systems (flaps, deicing boots), designed automated systems using Arduino, and built functional web apps. Passionate about engineering systems that blend mechanical precision with digital intelligence. Took up Cybersecurity training to address vulnerabilities in CNC machines, autonomous robots, drones, and other connected systems, aiming to build resilient engineering systems that are secure by design. Proficient in French, English and Swahili.

## SKILLS

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- ✓ **Engineering Tools:** SolidWorks, AutoCAD, CNC machining, lathe, milling, drilling, arc welding
- ✓ **Programming:** Python, C, C++, HTML/CSS, JavaScript
- ✓ **Hardware/IoT:** Arduino, servos, sensors (ultrasonic, IR)
- ✓ **Data/ML:** Pandas, NumPy, matplotlib, scikit-learn
- ✓ **Cybersecurity:** Ethical hacking (CISCO), ISC2 Cybersecurity basics
- ✓ **Other:** Git, GitHub, Web development (React basics)
- ✓ **Soft Skills:** Analytical thinking, Team leadership, Critical thinking, Emotional intelligence, Problem-solving, Self-driven, Communication, Adaptability

## WORK HISTORY

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Feb 2024 to Apr 2024      **MECHANICAL ENGINEERING ATTACHEE, SKYWARD AIRLINES, WILSON AIRPORT**

- ✓ Participated in aircraft maintenance operations, including A-checks and C-checks per KCAA protocols.
- ✓ Worked on flight control surfaces such as flaps and assisted in servicing deicing boots on turboprop aircraft. Followed airworthiness and safety-critical inspection procedures using Aircraft Maintenance Manuals (AMMs).
- ✓ Maintained aviation security through tool accountability, area clearance procedures, and part traceability.
- ✓ Logged maintenance activities and supported engineering documentation for compliance audits.

Dec 2024      **MASTERCARD CYBERSECURITY VIRTUAL EXPERIENCE  
PROGRAM ON FORAGE**

- ✓ Completed a job simulation where I served as an analyst on Mastercard's Security Awareness Team
- ✓ Helped identify and report security threats such as phishing.
- ✓ Analyzed and identified which areas of the business needed more robust security training and implemented training courses and procedures for those teams

Jan 2024 to Dec 2024      **MECHANICAL ENGINEERING ATTACHEE, DEDAN  
KIMATHI UNIVERSITY OF TECHNOLOGY**

- ✓ Designed and optimized machine components using CAD, cutting material waste by 15% in CNC fabrication.
- ✓ Operated lathe, milling, and drilling machines to produce mechanical parts.
- ✓ Carried out arc welding for structural joints in lab-scale mechanical assemblies.
- ✓ Installed and serviced basic electrical systems within the university mechanical workshop

**EDUCATION**

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CURRENT (Est. 2026)	<b>B.Sc DEGREE: MECHANICAL ENGINEERING DEDAN KIMATHI UNIVERSITY OF TECHNOLOGY - NYERI, KENYA</b>
2022	<b>KSCE: ST PETER'S MUMIAS BOYS HIGH SCHOOL – KAKAMEGA, KENYA</b>

<b>Certifications:</b>	Ethical Hacking – CISCO Networking Academy
	Cybersecurity Fundamentals – ISC2 / OBRIZIUM
	Software & Web Development – Power Learn Project
	Data Science & Machine Learning – Udemy

## ACCOMPLISHMENT

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1. Automated Security Gate System (Arduino): Built an ultrasonic-sensor based gate opener with servomotor actuation. Simulated intruder detection by activating house lights on proximity breach.
2. Graph Plotter Web App: Developed a browser-based graph plotting tool for students and teachers. Hosted live at: [graphplotter-jonah-11s-projects.vercel.app](https://graphplotter-jonah-11s-projects.vercel.app)
3. GitHub Portfolio: Contains source code for web, automation, and data science projects: [github.com/Jonah-11](https://github.com/Jonah-11)

## REFEREES

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1. **MR. RICHARD ONYANGO**, PHYSICS TUTOR  
ST PETERS MUMIAS BOYS HIGH SCHOOL  
CELL NO: 0722968225
2. **DR. ZEDDY ANJIA**, ENGLISH TUTOR  
ST PETERS MUMIAS BOYS HIGH SCHOOL  
CELL NO. 0727880785
3. **BISHOP (DR.) JACKSON MUTHAMA WAMBUA**  
SENIOR PASTOR, DELIVERANCE CHURCH KAKAMEGA  
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4. **MR. SIMON MANYONGE**, ARCHITECTURAL ENGINEER  
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