

IZHAR JEAN

Atlanta, GA

(404) 457-6261 | izharbjean@gmail.com | www.linkedin.com/in/izhar-jean-b13862226/

EDUCATION

Bachelor of Science: Electrical Engineering, Tuskegee University Expected December 2027
3.7 GPA
Distinguished Presidential Scholar (Merit-based Full Tuition Scholarship)

SKILLS

Hardware: Soldering, Multimeter, Waveform Generator, Oscilloscope
Software: SolidWorks, KiCAD, Git, C++, Python, PLC Programming
Other: Printed Circuit Board (PCB) Design, FFF/FDM 3D Printing, Debugging

EXPERIENCE

Electrical Maintenance Intern May 2025 – Aug 2025
Nucor Steel Sedalia *Sedalia, MO*

- Designed and fabricated custom circuit boards using PCB design software, KiCAD, for various industrial systems, including crane magnet controls and shaft proximity sensors, reducing part costs by \$200-\$1000 per unit
- Performed regular maintenance and troubleshooting of electrical systems throughout the mill, ensuring reliable operation and effective communication between sensors and critical equipment such as electric arc furnaces (EAFs) and the endless conveyer system (ECS)
- Collaborated with mechanical and environmental engineers to identify electrical inefficiencies and implement solutions, minimizing scheduled downtimes and improving system reliability

STEM Tutor Aug 2023 – May 2024
StemTree *Buckhead, GA*

- Tutored 30 students grade 5-8 in math, robotics, and coding, with a focus on circuits and electronics.
- Designed and implemented over 20 engaging and interactive lessons on circuit laws, components, and tool usage

Insurance Intern Aug 2022 – May 2023
The Balter Company *Sandy Springs, GA*

- Managed book of accounts of over 200 clients, ensuring a proper flow of data to allow managers to correctly assess claims and communicate with clients
- Transformed company's database system by integrating digital database through Microsoft Access, making gathering documentation and collecting client data more efficient

EXTRA-CURRICULAR ACTIVITIES

Tuskegee University – Nucor Education and Research Center (NERC) Laboratory Sept 2025 – Present

- Conducted research on the electrolytic etching of stainless-steel samples using hydrochloric acid to expose impurities, such as centerline segregation for analysis
- Automated the etching system using relay-based controls to regulate voltage output and maintain solution contact levels, improving experiment consistency and repeatability
- Reduced etching time from 15 minutes, an industry standard using boiling 50/50 HCl-H₂O solution, to 2 minutes using a room-temperature 2.6/100 HCl-H₂O solution, while improving clarity of centerline segregation

Engineering Finance Committee Co-Chair for Proctor and Gamble TUBE Conference Sept 2024 – Apr 2025

- Tuskegee University Business and Engineering (TUBE)
- Led team of 7 students in planning, budgeting, and procurement process for TUBE networking conference
- Managed ~50,000 dollars to fund the networking conference and coordinated with sponsor representatives to provide funding

PROJECTS

Ergonomic Keyboard Design May 2024 – June 2024

- Researched the relationship between pronation and supination from keyboard usage into wrist-related afflictions
- Designed, soldered, and assembled PCB and keyboard housing using KiCAD and AutoCAD