

Maako Fangajei

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Education

Georgia Institute of Technology | Atlanta, GA

Fall 2025 – May 2029

Bachelor of Science in Electrical Engineering; GPA: 4.0

- Stamps President's Scholar, full-ride merit award chosen on the basis of leadership, academics, and service
- Ron Brown Captain, part of a professional development program for high-achieving African-American students

International School of Lausanne | Le Mont-Sur-Lausanne, Switzerland

Fall 2017 – Spring 2025

International Baccalaureate Bilingual Diploma; Higher Level Subjects: Math, Physics, Computer Science; Final Grade - 43/45

Experience

Inan Research Lab | Atlanta, GA

September 2025 – Present

Undergraduate Research Assistant

- Supporting research in biomedical signal processing and hardware development for non-invasive physiological monitoring systems.
- Assisting with circuit design, PCB prototyping, and firmware development for wearable sensing platforms.
- Developing experience in sensor fusion, data analysis, and machine learning for bioelectronic device

NASA STEM Enhancement in Earth Science | Virtual

May - August 2024

Research Intern, Earth System Explorers

- Engineered XGBoost ML model predicting land surface temperature from multispectral land cover data
- Applied regularization and feature engineering to reduce overfitting, improving model generalization
- Processed and cleaned 1100 satellite images for model training, creating a high-quality dataset for model training
- Gave technical presentation at the NASA SEES Symposium, strengthening skills in scientific communication

Ecole Polytechnique Fédérale de Lausanne (EPFL) | Lausanne, Switzerland

February 2024

Intern, Laboratory of Artificial Chemical Intelligence

- Collaborated with PhD researcher to design an ML model predicting the oxidation states of transition metal catalysts using chemical structure data
- Applied supervised learning techniques to large chemistry datasets, employing feature extraction methods for improved model performance
- One of five interns selected to present project and research outcomes at the Adolphe Merkle Institute, strengthening technical communication ability

Leadership

HIVE Makerspace | Peer Instructor

Starting January 2026

- Selected to mentor students in CAD, 3D printing, soldering, and prototyping in Georgia Tech's interdisciplinary makerspace.
- Preparing to lead workshops and provide technical guidance on student engineering projects.
- Strengthening skills in technical communication, leadership, and hands-on instruction.

VEX Robotics Team 21052A | Captain (2023/24) & Lead Engineer (2024/25)

September 2022 – April 2025

- Directed a six-member robotics team to qualify for and compete in the 2024 VEX World Finals in Dallas, Texas
- Directed engineering across mechanical, electrical, and coding decisions during the project lifecycle
- Co-authored and maintained a 100+ page engineering notebook documenting design rationale and product testing
- Expanded team presence through social media management and STEM outreach programs in the local community

Skills

Programming: Java (proficient), Python (proficient), C++ (semi-proficient), HTML (semi-proficient), JavaScript (semi-proficient)

Software: OpenCV, GitHub, Pandas, Scikit-learn, XGBoost, SimScale

Professional Organizations: Institute of Electrical and Electronics Engineers, National Society of Black Engineers

Interests: Medical Devices, Soccer, Social Justice & Equality, Economics, Snowboarding