

# Maako Fangajei

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## Education

### **Georgia Institute of Technology** | Atlanta, GA

Bachelor of Science in Electrical Engineering; GPA: 4.0

*Fall 2025 – May 2029*

- 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

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

*Fall 2017 – Spring 2025*

## 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