

# Maako Fangajei

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## Education

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

Fall 2025 – May 2028

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

**NASA STEM Enhancement in Earth Science** | Virtual

Summer 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

**OddersLab** | Virtual

January 2024 - April 2024

Intern, Marketing

- Designed and executed target market research study for the OddersLab Les Mills XR Dance experience
- Analyzed research findings to develop optimal engagement strategy promoting Les Mills Dance experience
- Delivered actionable insights to company leadership, developing technical communication and interdisciplinary collaboration

## Leadership

**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

**Football for All** | Co-President

November 2022 - March 2025

- Oversaw the organization of four school-wide charity football events, raising funds for local EVAM refugee center and drawing attendance of over 100 people per event
- Coordinated logistics with school administration to secure event venues and approval for large-scale student events
- Directed 30+ student volunteers, delegating tasks to ensure smooth execution of large-scale events

## 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