

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 2028

- 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

NASA STEM Enhancement in Earth Science | Virtual

Research Intern, *Earth System Explorers*

Summer 2024

- 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

Intern, *Laboratory of Artificial Chemical Intelligence*

February 2024

- 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

Intern, *Marketing*

January 2024 - April 2024

- 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