

Yagho Franco Grossi Mota

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EDUCATION

UNIVERSITY OF MICHIGAN; Ann Arbor, MI

August 2023 - (April 2027 expected)

Bachelor of Science in Engineering (B.S.E) in Electrical Engineering

- **Cumulative GPA:** 4.00/4.00
- **Minor:** Mathematics
- **Engineering Honors Program**
- **Relevant coursework:** EECS 280 (Programming and Data Structures), EECS 215 (Introduction to Electronic Circuits), EECS 200 (Electrical Engineering Systems Design I)

TECHNICAL SKILLS

- **Languages:** Portuguese (native), English (fluent), Spanish (fluent), Chinese (intermediate), French (advanced), Italian (advanced), German (intermediate)
- **Programming Languages:** Python, C++, Bash, MATLAB, Julia, SQL, HTML, PHP
- **Version Control:** GitHub
- **CAD & Design Software:** AutoCAD, 3D CAD, Fusion 360, Blender
- **3D Printing:** Ender filament printers, Formlabs resin printers
- **Electronics:** Altium PCB Designer, Circuit Design, Soldering, Linux Device Tree Overlays (.dts, .dtbo)
- **OS:** Linux, Windows, ROS2

WORK EXPERIENCES

ZOETICS LAB RESEARCH ASSISTANT; Ann Arbor, MI

February 2025 -

- Under Prof. Dr. Cameron Aubin, I designed an adapter for the wings of an insect-scale winged robot on AutoCAD for smooth transitions between flight modes
- Adapted Peta Piko Voltron High Voltage Power Supplier PCB to output 8kV instead of the previous 6kV

DESI FIBER POSITIONING LAB RESEARCH ASSISTANT; Ann Arbor, MI

August 2024 - December 2024

- Under Prof. Dr. Michael Schubnell, I developed a 1-Wire protocol on BeagleBone Black for U-Boot-based thermistor temperature monitoring on Dark Energy Spectroscopy Instrument's (DESI) petalbox PCB
- Upgraded systems to Debian 11 and distributed BeagleBone Black images to DESI collaborators at UC Berkeley

WEI LU RESEARCH GROUP RESEARCH ASSISTANT; Ann Arbor, MI

2023 - 2024

- Under Prof. Dr. Wei Lu, I designed and 3D-printed new prototypes for self-cleaning PDMS resin sheet coated in Graphene Oxide (GO) to increase its hemostatic efficiency and use as renewable parchment for wound treatment
- Both retention and self-cleaning factors increased by 300% compared to the previous design

RECENT PROJECTS

EDUBRIDGE STARTUP CHIEF DATA OFFICER

March 2025 -

- Cofounded the startup, which offers student loans in ISA style for Latino students studying in the United States. The whole process is online, using AI and learning algorithms
- Idealized and programmed an algorithm for calculating the loan to be offered to a student based on their database information, and future salary prospects per university per course (obtained through my web crawler).
- Implemented the SQL database and ppl interface for the backend of the company's website.

DIY 3D PRINTED OPEN-SOURCE DRONE PROJECT MANAGER

2023 - 2024

- I started an open source project on GitHub where I share my CAD designs, firmware, and software setup for an autonomous drone with integrated Computer Vision

GUITAR TABLATURE TRANSCRIBER AND SYNTHESIZER; Ann Arbor, MI

January 2024 - April 2024

- Under Prof. Jeffrey Fessler, I developed a program to generate guitar tablature from recorded staccato, and non-polyphonic guitar songs and synthesize inputted tablature with guitar timbre, featuring a modern GUI

HONORS & AWARDS

- **Awards:** Brazilian National Medal of Academic Honor (2021), James B. Angell Scholar Award (2025), Dean's Honor List (Fall 2023, Winter 2024, Fall 2024), National and Two Regional Golden Metals in KFS Mathematical Olympiad (2021, 2022), Three Golden Medals in the ONC National Science Olympiad (2020, 2021, 2022), Golden Medal in OBBiotech Brazilian Biotechnology Olympiad (2022), Silver Medal in OMQ Chemistry Olympiad (2021)
- **Honors:** Engineering Honors Scholar (2024-)

EXTRACURRICULARS

- Brazillian Student Association (member), MRover (member), Michigan Catholics (member), Thomistic Institute (member)