Gabriel Fernando Habech

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Skills

- *Programming Languages:* Python, C, MATLAB
- *Computer Vision:* OpenCV, YOLO, OpenAI LLM image analysis
- *Cloud Computing:* Azure OpenAI, Azure Speech Services, Google Cloud Services, VertexAI
- *Data Visualization & CRM*: Tableau, Power Bi, Sales Force, Matplotlib, and Seaborn
- *Machine Learning:* Data preprocessing, model training, model evaluation; Microsoft AI-900 certified
- *CAD:* Fusion 360, Slicer Tools, KiCad
- *Languages*: Portuguese (native), English (fluent), Spanish (proficient)
- *Configuration Management:* GitHub, SSH

Awards

- South Florida Business Inno Under 25, United Nations Millennium Fellow, Global Learning Fellow, NVIDIA Inception Program, Microsoft Founders Hub; Featured on NBC, Telemundo, Refresh Miami, and FIU News.

Education

Electrical Engineering, **Honors College at Florida International University** | **Miami, FL**   *August 2021 – July 2025*
- GPA: 3.94/ 4.00
- Dean's List for every semester attended at FIU

Techstars Startup Accelerator | Columbus, OH   *March - June 2025*

Professional Experience

Fovionics (Techstars '25) – Founder & Developer   *December 2023 – Present*

- Design and engineering of smart glasses integrating cameras, Computer Vision Algorithms, AI, and haptic feedback to provide real-time situational awareness for visually impaired individuals.
- Develop system integrations using computing modules, audio interfaces, time-of-flight cameras, RGB cameras, stereo vision cameras, power supply design, and haptic actuation during prototyping and product validation.
- Contribute to the development of computer vision algorithms for object detection using OpenCV and DepthAI which resulted in 95% less computing power, a method which is patent pending.

Envelop Group - Sales Engineering Intern | Fort Lauderdale   *May 2024 – August 2024*

- Managed clients and projects using Salesforce, created bill of materials, assembled submittals, and developed a pricing system to ensure efficiency in quoting jobs.
- Developed detailed quotes and strategic pricing models, supporting customer acquisition and retention. Collaborated closely with the Director of Sales, Sales Engineers, and Controls Technicians to technical sales processes and customer relationship management
- Developed technical sales presentations which led to territory expansion, and participated in sales presentations at hospitals, laboratories, and universities.

NASA – Nanofabrication and Characterization Engineer | Miami, FL.   *September 2022 – December 2023*

- Supported nanofabrication and sensor development through high-precision photolithography on semiconductor wafers, achieving improved fabrication accuracy and process efficiency.
- Executed nano-indentation tests on a range of metals and polymers to extract mechanical properties for NASA-led research, contributing to published PhD theses.
- Managed setup, calibration, and maintenance of multiple 3D and resin printing systems, enhancing workflow efficiency and spearheading 2D circuitry printing techniques within the NASA lab environment to support R&D.

Lurcott Labs – Electronics Technician Intern | Deerfield Beach, FL   *May 2023 – July 2023*

- Assembled, tested, and repaired electronic components on PCBs for medical testing devices, marine autopilots, marine water makers.
- Conducted d-dimer tests utilizing MATLAB and photodiode sensors with precision, achieving over 90% accuracy.
- Troubleshooted different electronic devices using measurement tools like voltmeters, and oscilloscopes

Vipel Indústria e Comércio de Papel Toalha – Founder and Advisor | Indaial, SC, Brazil   *January 2021 – Present*

- Led the development, implementation, and operationalization of a successful business plan, focusing on the optimization of paper towel and toilet paper products amounting to R$600,000 in revenue a year.
- Demonstrated adept management of pricing strategies, production processes, and logistics, resulting in 2000% increase in sales within a remarkable 5-month timeframe.
- Established relationships with clients, suppliers, and logistics partners, securing over 40 clients through a dynamic approach encompassing door-to-door sales, telephone outreach, and internet engagement.