(765) 543-4749
lmeira2001@gmail.com
Lafayette, Indiana

Luis Almeida

lamalmeida.github.io/PersonalWebsite/
github.com/lamalmeida
linkedin.com/in/lamalmeida

Education

Purdue University — **West Lafayette, IN** — **08/2023 – 12/2024**
Masters of Science in Computer Engineering
Concentration in *Innovative Technologies*

Purdue University — **West Lafayette, IN** — **08/2019 – 05/2023**
Bachelor of Science in Mechanical Engineering
GPA: 3.73/4.00
Minor in *Economics* and in *Mathematics*
Honors College

Work Experience

Consultant and Marketing Director — **08/2023 – 12/2024**
SCOPE JE Consulting
- Worked with Shine On University to develop a website capable of managing applications, donations, and scheduling
- Elected Marketing Director with the goal of growing our reputation as a prime consulting club at Purdue

Development Intern — **06/2022 – 08/2022 & 06/2023 – 08/2023**
EDP Renewables
- Processed parcel and tax data for 4 projects by analyzing county data and using CRM and GIS software
- Composed geographical maps using ArcGIS Pro to perform setback analysis on project constraints
- Created internal reports using PowerBI for information management and sharing on the company's project pipeline

Teaching Assistant for Measurements and Control Systems I and II — **01/2022 – 12/2022**
Purdue University
- Developed lab experiments and trained students in using MyRIO microprocessor with LabVIEW
- Led a project working on transitioning from LABVIEW to C successfully re-implementing all lab experiments

Research and Project Experience

Portable Hydration Monitoring - Aqua Check — **08/2023 - 05/2024**
- Researched existing strategies for hydration monitoring with varying sensor and data processing techniques
- Developed pre-processing stack to deal with motion artifacts, missing measurements and high-frequency noise in Python
- Currently developing testing methodologies for bio-electrical impedance analysis and using BIA datasets for ML training

Soccer Playing Autonomous Robot — **08/2022 - 12/2022**
- Conceptualized, designed, and built a soccer-playing robot capable of sensing, acquiring, aiming, and shooting a ball
- Developed the Finite State Machine to control the robot using Arduino interface and Python
- Final design was capable of accurately shooting a ball into a goal 10ft away over 80% of the time

Leadership and Extra-Curriculars

Purdue Mechanical Engineering Ambassadors (PMEA) — **11/2021 – 05/2023**
- Promoted social, academic, and professional events and provided campus tours to incoming students as part of a 6-person team
- Coordinated online engagement and extended social presence as Public Relations Committee Chair for Fall 2022
- Directed a class where students learn about topics related to Mechanical Engineering to instill curiosity and excitement

Honors Mentor Program Council Member (HMPC) — **05/2021 – 12/2022**
- Programmed organization's major events by communicating and collaborating with vendors, university officials, and presenters
- Organized recruitment and planned team building activities and workshops on areas of leadership development
- Expanded the program from 99 to 146 mentors in a single academic year to accommodate an increase in incoming students

Skills & Publications

Skills

• Programming Languages	C	Python	LabVIEW	Matlab	LaTeX
• Software Tools	CATIA	Fusion 360	ArcGIS	MS Office	
• Languages	English	Portuguese	Spanish		

Publications

- Santamarina, A., & Almeida, L. (2021, November 1). Size effect on Structural Strength of Lego Beams. ASME IMECE 2021. Retrieved from https://par.nsf.gov/biblio/10317272