

Guy-Jacques Isombe



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isombeg.github.io

Education

McMaster University
B.Eng.Mgt, Computer Engineering
and Management CO-OP | 2022 |
cGPA: 3.5

Skills

Languages:
French

Languages:
Python3, Javascript, Java, C, MATLAB,
Simulink, HTML, CSS, Linux

Libraries and Frameworks:
Scikit-Learn, Numpy, pandas,
PySerial, Arduino

Circuit Design and Simulation:
OrCAD Capture and PSpice, Quartus II

Work Experience

- Since Sep'19 Program Instructor Mathstronauts, Hamilton, ON
Taught class of 10 middle schoolers Arduino programming and CAD on a weekly basis
Lead them through the design and assembly of a proximity sensing white cane
- July'18 Robotics Student Leader Peel District School Board, Mississauga, ON
Devised workshops pertaining to robotics and block programming
Administered these workshops with groups of 15-30 students aged 5 to 10 years of age.

Personal Projects

- Sept-Nov '19 Pacemaker Embedded Software and Device Control Monitor (DCM)
Python: PySerial, Simulink
Robust, safety-critical embedded software based on Boston Scientific documentation and pacemaker theory. Interfaces with GUI on a given computer through serial communication
- Feb - Mar '19 Sumobot Embedded Software C++: Arduino
Software for diagnostics, hardware control and behavioral logic of a sumobot. Earned 8th of 24 teams.
- June '18 Morse Code Interpreter C: Arduino
Embedded software for collecting and interpreting user's electrical input as morse code.

Extra-Curriculars

- Since Jun'19 Programs Chair National Society of Black Engineers, McMaster University
Tasked with organizing events that strive to enhance general members' competencies including academic standing and technical skills. Organized events include: *Acing the Coding Interview (Workshop)*, *Learning Matlab Correctly (Workshop)*
- Jan-May '18 Start-up Accelerator Finalist HacktheCity: Genesis, 2018
Qualified for 3 week long start-up accelerator after being one of 5 of 12 teams to qualify. Conceptualized an MVP to tackle a challenge within Health and Aging which was pitched to representatives from IBM, the city of Hamilton, McMaster University, etc.
- Jan'19 LAND_Fix NSBE Hacks, 2019
Built solution which employs blockchain technology with the goal of making land transactions resistant to invalid modifications. Designed to be held by governments to combat illegal land grabbing and corruption in Africa.
- Sep'18 Consulting Competition Candidate McMaster Engineering Competition, 2018
Presented an app that would make use of AI and a database in order to combat the high-level miseducation in farmers as a way of optimizing yield.

Achievements

- May'19 Deans' Honours List
May'18 HackTheCity Genesis Beta Finalist
Nov'18 Dean of Engineering, Excellence in Innovation
Sep'17 Honour Award, Level 3