Mo Abidi

Mechanical Engineering | University of Waterloo

moabidi.me | github.com/mo-abidi | smwabidi@uwaterloo.ca | 416·274·4753

Languages		Tools	Design	Skillset
HTML	JavaScript	Bootstrap	Figma	Project management/SDLC
CSS, Sass	C++, RobotC	JQuery	SolidWorks	Effective coordination between stakeholders
Python	VBA	SQL	AutoCAD	Designing user-accessible interfaces

Work Experience

Rockwell Automation

Cambridge

Winter 2020

Supply Chain Engineer

- Developed Excel VBA and Power BI tools to track parts shortages and prevent delays in production
- Drafted production plans for custom electrical starters and drives according to customer requirements

Project — Streamlined and automated production reports

- Programmed scripts to pull raw data from internal databases and automatically update daily production informatics, enabling part acquisition team to meet production needs 15% faster

Other Experience

Web Development

Fall 2020

Frontend Developer

- Designed and developed websites with **HTML**, **CSS**, and **JavaScript**
- Prototyped and constructed personal website—moabidi.me
- Applied Bootstrap framework and JQuery library to streamline code and emphasize mobile-first development

Coursework

- Completed courses from MIT and Harvard on Python and backend programming (6.00.1x, CS50, CS50W), working with data structures, algorithms, and complexity analysis—97% final grade
- Gained experience with RESTful programming principles, and working with APIs
- Developed understanding of MVC architecture and applications

Projects

Hack the North 2021++
Finalist

mashme.tech

- HTN 2021 Finalist—web app that uses **Spotify API** song analytics to let users create song mashups on-the-fly
- Splitting songs into individual tracks (bass, lead guitar, etc.) and letting users combine them with a clean UI
- Using **mySQL**, **Flask**, **Python**, **Google Cloud Platform**, **Nginx**, **Spleeter**, **Pydub**, **JavaScript**, **HTML**, and **CSS**

Robotic Gardener

Automated Gardening Robot

- Used **C++** and **RobotC** to program Mindstorms robot to automatically water plants and deliver nutrients
- Wrote scripts to identify unique plants by colour and memorize/adapt to changing floorplans
- Used **GitHub Projects** workflow organizer (similar to Jira)

Spotify Listening Tool
Ongoing

Rapid playlist creation

- Using **Spotify API** with **Python** to create tool for rapid playlist creation and modification
- Uses command line commands to quickly generate and populate playlists without navigating Spotify app

Involvement

UWaterloo Engineering Society—Social and Events Commissioner

Responsible for logistics, advertising, and financials for Eng social events

- Engineering Semi-Formal—Dance with over 700 attendees
- TalEng—Engineering talent show
- Coffeehouse—Engineers performing music and socializing

Interests

🥊 Boxing

🛹 Skating

🍜 Cooking

🔵 Music