in/akshatdoctor/ **AKSHAT DOCTOR** github.com/AkshatDoc

adoctor@uwaterloo.ca English, French (437) 234-5422

Skills

Machinery: 3D Printing, Machine Shop Tools, Woodworking tools

Tools/Technologies: SOLIDWORKS, AutoCAD, Arduino, Fritzing, MS Office, G Suite, Firebase

Programming Languages : C++, C#, Python, Java, HTML & CSS

Education

University of Waterloo: Candidate for BASc. in Mechatronics Engineering Sept. 2020 - Present

Experience

Student Product Development Intern, UTEX Scientific Jun. 2020 – Aug. 2020

- Developed a C# app for InspectionWare Evaluate that produced DICONDE(.dcm) compliant files from different ultrasound images of billets
- Scraped an Excel workbook provided to gather different information needed for a file to be considered DICONDE Compliant
- Pitched application to the client and received the go-ahead to implement application into IW Evaluate (separate product)

Technical Lead, FRC Team 1374 Amped Up Robotics Sept. 2017– Aug. 2020

- Led a team of 10+ students in manufacturing and assembling of robot components based on the years design
- Prototyped and built different mechanisms to manipulate different game objects with commercially off-the-shelf parts along with in house manufactured parts for 3 competition robots
- Validated design choices, troubleshooted electrical and mechanical issues during testing and after gameplay of matches

Construction Lead/Co-founder, Bottl'd Canda Jun. – Aug. 2020

- Diverted around 2000 plastic bottles from school waste bins into walls for a greenhouse
- Partnered and continued communications with the CN Tower to collect 2300 plastic bottles
- Prototyped different styles of storing bottles for the wall and constructed the strongest model wall

Projects

DIY CNC Project Jun. 2020 – Present

- Used **SOLIDWORKS** and **Fritzing** to design the mechanical and electrical components of a 4ft by 4ft CNC machine with a DWP 611 router and laser engraving head

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Remote Light Switch Jun. 2020 – Jul. 2020

- Used **Python** Speech Recognition library to register voice inputs from the user and turn on/off a Solid State Relay connected to AC Lamp
- Created a **Flask** page hosted on home network to control the light wherever in the house