

Pavneet Singh Kapoor

Systems Design Engineering • 20611924 • 226-988-3024 • p7kapoor@uwaterloo.ca

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Summary of Qualifications

- Detail oriented with a passion for clear and communicative design
- Experience with creating logical software code and extensive debugging
- Created successfully functioning robots using various machinery and applications
- Hands on experience with circuits, hardware, and extensive troubleshooting

Skills

Development: C++, HTML/CSS, JavaScript, Bootstrap, Meteor Js, MySQL, Python, Java, Node Js, MongoDB

Tech: SolidWorks, Solid Edge, AutoCAD

Design: Adobe Photoshop, Microsoft (Word, Excel, Publisher)

Relevant Projects

Firefighter Bot

- Developed a fire detecting robot that uses infrared sensors to detect and extinguish sources of fire while travelling through a maze
- Produced circuitry using Traxmaker and programmed bot using Micro Code Studio
- Created a project report in which all deadlines were met
- Learned to effectively troubleshoot due to multiple problems

Sumo Bot

- Produced a bot that utilizes LEDs and sensors to detect boundaries while battling other bots within a ring
- Constructed wooden and metal components of bot using various tools in machine shop (band saw, sander, etc.)

Polynomial Problem Solver

- Implemented GUI and other functions using Java as part of a team
- Developed feature descriptions, project reports involving necessary schedules, and a user manual
- Created various test cases to ensure the success of the program

Experience

Full Stack Programmer Intern

Jan 2016-March 2016

Hungryboat, Waterloo, ON

<http://www.hungryboat.com>

- Created pre-alpha version for website using PHP framework and Bootstrap incorporation
- Used Meteor Js to create web app for alpha version
- Developed back-end logic for relational database structure in MongoDB
- Assisted in creating business model logic for website
- Pitched business idea to potential restaurant clients and consumers and conducted market validation through surveys

Engineering Intern

June 2015– September 2015

VidyaSmart, Waterloo, ON

<http://vidyasmart.com/index.html>

- Produced 3D representative designs for products in SolidWorks to create working prototypes
- Collaborated with co-workers to do initial product testing and laboratory experiments using various optics tools
- Developed applications in Android Studio for Arduino to Android serial connectivity
- Designed company logo using Adobe Photoshop to strengthen branding and appeal

Education

Candidate for B. A Sc, Systems Design Engineering

University of Waterloo

September 2015– Present

Relevant Courses: Digital Computation (C++), Intro to Design

Ontario Secondary School Diploma (Honours)

Sir John A. Macdonald, Waterloo, ON

June 2015

Relevant courses: Technological Engineering, Computer Science (Java and Python)

Activities and Interests

- High School Basketball Team **2012-2015**
- Drawing/Photography