Pavneet Singh Kapoor

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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(UI/UX), Graphics (SolidWorks)

**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