

BAVA KESAVAN

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EDUCATION

McMaster University, Hamilton
Mechatronics Engineering
CO-OP, Bachelor
Expected Completion - April 2019

SKILLS

Tools and Technologies

Java | JavaScript | C/C++ | Python
Bash/Shell | XML | SQL | HTML | CSS
Linux/UNIX | Android Studio | Jira
GitHub | Matlab | Simulink | Stateflow
Sensors | Actuators | Multimeters
Oscilloscope | Microprocessors

Other

Leadership | Teamwork | Public
Speaking | Project Management |
Time Management | Strategic Think-
ing | Problem Solving | Resourceful

ADDITIONAL WORK

Autonomous Robotics & Vehicle
Innovations Team - Member
| Lawn Mower | Smart Sprinkler
System | Pacemaker | IR Receiver
| Shopping Application
| Dynamic Hoist | CD Design

INTERESTS & HOBBIES

Photography | Biking
Snowboarding | Gardening
Wood Working | Autonomous -
Driving | Artificial Intelligence

EXPERIENCE

Project Engineer (Co-op)

Evertz Microsystems Ltd. | Burlington, ON | May 2017 - Aug 2018

- Designed automated solutions and took the technical lead throughout project lifecycles ensuring timely deployments pertaining to the client's requirements
- Performed conceptual, thorough analyses of system architectures to design and solve workflow issues on existing systems, building reliable and stable systems
- Interacted and worked with over 7 clients, providing them with innovative media asset management solutions using JavaScript, SQL, XML, and Shell scripts
- Managed and coordinated over 200 tasks including onsite visits; administered complete system tests to reduce production level failures from 40% to under 5%
- Led a Proof of Concept design presentation for a customer based on their requirements, resulting in an agreement to purchase the production-ready product

E-commerce Intern (Co-op)

Cardinal Health Canada | Vaughan, ON | May 2016 - Aug 2016

- Developed and implemented algorithms for product database using VBA
- Identified and improved data quality while collaborating with Product Managers resulting in accurate and detailed data for the new b2b platform
- Implemented design changes to the website creating a better user experience
- Received the spotlight award for innovative ideas, improving overall efficiency by 200%

PROJECTS

Drop | Capstone Project | Sep 2018 - Present

Drop is a solution to the time-consuming operation of filling blister packs at pharmacies. This device will effectively fill each blister pack with the required medications that have been indicated in the prescription.

- Designed and implemented the hardware system, with an Arduino, Raspberry Pi, limit switches, sensors, and actuators to precisely control and reliably dispense medication
- Developed technical workflow and state diagrams along with test cases for the user

ICC+ | St. Joseph's Hospital, Hamilton, ON | Nov 2018 - Present

ICC+ was recently pitched at the Innovation Sprint Competition, to improve the current Integrated Comprehensive Care program at St. Joseph's Healthcare Hamilton. We created an integrated health systems and human resources solution to tackle the problem of caregiver burnouts, with access to information that could improve caregivers health.

- Currently designing the ICC+ pilot project with the creation of new roles within the health system and a web-based platform

Push Pull Legs | Available on the Play Store | Oct 2017 - Nov 2018

With over 5000 downloads, Push Pull Legs is a product of my personal Android development exploration. It is an application created for fitness enthusiasts to help meet their exercise goals.

- Incorporated with Google Firebase, users are greeted with personalized information and are able to track progress, resulting in improved workouts and better motivation
- Designed and built an effective and attractive UI to help facilitate ease of use