

Shane Dharan

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TECHNICAL SKILLS

- **Languages:** C, C++, Java, MATLAB, Python, XML, MySQL, VHDL
- **Platforms:** Windows, Linux, Android
- **APIs:** Twilio, Dropbox, Swing, OpenCV
 - Excellent understanding of Object Oriented design principles and software debugging

RELEVANT WORK EXPERIENCE

Software Developer Intern, Qvestrade, Toronto, ON **June 2015 - Present**

- Implemented feature to a high frequency trading machine, which decreased processing time needed for data analysis from 1 minute to 3 seconds
- Tested and debugged several critical components using logging and system level testing
- Worked in Agile Scrum environment

SELECTED PERSONAL PROJECTS

Remote Security Camera (1 – person project) **November 2015**

- Developed a motion tracker that can turn any webcam into a remote security camera
- Implemented user controls and alerts via SMS
- Implemented cloud storage with Dropbox for user to view motion recording remotely

Memory Box (4 – person project) **November 2015**

- Developed a memory logger that records and recalls memory notes via voice
- Simple recording and recall features implemented for patients with Dementia on the Android platform
- Implemented portal to show statistical feedback of user's memory progression and habits

Bidding Game AI (1 – person project) **July 2015**

- Developed a bot that would play the "bidding game" against bots made by other contestants
- AI to play bidding game: <https://www.hackerrank.com/contests/twitch/challenges/the-bidding-game>
- Ranked 21 out of 525 as of June 2015

Indoor Navigation Mobile Application (4 – person academic project) **January 2015 – April 2015**

- Designed application for indoor navigation for the University of Guelph campus
- Used Dead reckoning and Dijkstra's algorithm for calculating user's position and path
- Image processing used on customized floor plan to locate key points/locations

ACTIVITIES AND INTERESTS

Vice-Chairman of IEEE University of Guelph Student Branch **September 2015 – Present**

- Leading "Build An App" Seminar for the Android platform
- Helped organize "Build a Robot" Seminar with 50 participants

Intramural Team Member **September 2014 – Present**

- Active participant in competitive Soccer and Volleyball teams

EDUCATION

Bachelor of Engineering, Honours in Computer Engineering **September 2011 – Present**
University of Guelph, Guelph, ON