BRYAN KRISTIONO

Computer Science 1B

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Summary Of Qualifications

- Successfully competed in over 12 competitions through thoroughly analyzing various situations to gain highest efficiency in points
- Managed and lead a team through the process of software development, from design to pushing code
- Self-taught syntaxes and programming concepts with the use of official language documentation
- Participated in a national competition, First Robotics Competition, for 4 years where I gained extensive skills of design and development from industry workers

Skills

Languages:
Java, Python, C++,
HTML, CSS, Racket, easyC

Tools:
Inventor, Eclipse , Photoshop,
InDesign, Premiere,

Hardware:
Arduino, Roborio, CAN

Soft Skills:
Time Management,
Teamwork, Design, Analytical

Education

University of Waterloo
Honours Bachelor of
Computer Science | Co-op
(Candidate for)
2016 - 2021
GPA: 3.86/4.0

Awards

First Robotics Competition:
2016 North bay Regional Winner
2016 Waterloo Regional Winner
2016 Championship Division Finalist

Activities

UW Mars Rover | Programmer
Escape UW | Executive
Korean Christian Fellowship | Member

Projects

Line Following Music Player | (C++) **Sept 2017 - Oct 2017**
- Automated path following by planning motion control using photoconductive cells and a grayscale sensor
- Integrated Arduino UNO to play certain musical notes based on grayscale points on a line

Black Mamba | , (Java) **Jan 2016 - Apr 2016**
- Developed camera tracking for automatic target aiming using Roborealm and retroreflective tape for a ball shooting robot
- Utilized trigonometric analysis to integrate computer vision with motion control
- Created over 30 autonomous sequences to achieve double the points during competition

Angular Motion Simulator | (Java) **Nov 2015 - Jan 2016**
- Created a teaching tool for high school students to understand the motion of rotations
- Implemented equations to develop a rotational kinematic calculator
- Produced a GUI specific to teachers' specifications with visual components provided by Java API

Experience

THEORY 6 | Robotics Mentor **Sept 2016 - Present**
Mississauga, ON
- Teach students how to integrating sensors with mechanical components using previous experiences
- Guide students to produce mechanical movements with the use of libraries and sensors

Hack the North | Volunteer **Sept 2016**
Waterloo, ON
- Spent 20 hours volunteering for Canada's largest hackathon, including registration, set-up, and hardware lending