

Viral Patel

1A Systems Design Engineering | 20561700

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SKILLS AND QUALIFICATIONS

- Programming languages: **Java, C++, VBA, SQL, HTML, CSS**
- Programming skills: Eclipse, Netbeans, **object oriented programming**, data structures, **FIRST Robotics** and VEX Robotics, Android app
- Self-taught **front-end web design**
- MS Office: **Excel, Access**, Word, PowerPoint
- Familiar with 3D CAD software: Autodesk Inventor, and **SolidWorks**
- Teamwork and leadership skills; **FIRST Robotics Competition** (team leader)
- Public speaking and communication skills; speaking with professionals through robotics team

WORK AND VOLUNTEER EXPERIENCE

Team President/Programming Lead, FRC Team 188 *September 2011-June 2014*

- **Dean's List Semi Finalist** (North Bay Regional) for team leadership and community involvement
- Used Java, in Netbeans, to program robot controls; achieved **highest autonomous score** at the World Championship 2014
- Worked closely with **electrical team** to arrange and wire the sensors, motor controllers, and pneumatics
- Worked under alumni in the industry, served as a point of contact between students and mentors, and led (and taught) a team of programmers
- **Effectively communicated** team updates and plans to members, and **spoke with judges** in the industry regarding robot design, programming, and the design process

FIRST Lego League TDSB East, Event Volunteer and Field Referee *December 2011, 2013*

- Recorded scores for matches using MS Excel
- Refereed matches from 10am to 5pm
- Informed students, mentors and supervisors about match schedules and game rules

PROJECTS

Physics Simulator Android App, Project Manager *April – May 2014*

- SCRUM methodology, weekly deadlines and meetings
- Programmed a physics simulation **Android app** with Java
- Identified, by the instructor, as the **most synergetic** team

FRC Scouting System *February – April 2014*

- 2 Java applications (master and slave) to gather data on FRC team performance at events
- Used **SQL commands** to populate MS Access database with information from the Java applications
- **Skills learned:** GUI design, Java Swing library, file manipulation, data structures

Brickbreaker *May – June 2013*

- Presented in year-end Woburn Game Showcase
- Classic brick breaker game made in Java
- **Skills learned:** object oriented programming, file manipulation, Java Graphics

F1 in Schools, Team Leader/Designer *March – May 2012*

- Designed prototypes of a model F1 car using 3D CAD software (ProDesktop 8.0 by PTC)

- Documented design process and presented to class on large display board

ACTIVITIES/INTERESTS

Senior Member, Ultimate Frisbee Team, Woburn Collegiate Institute *May 2013 – June 2014*

Flautist, Woburn Wind Ensemble, Woburn Collegiate Institute *September 2011 – June 2014*

ACHIEVEMENTS

- Woburn Robotics Award, Woburn Collegiate Institute *October 2014*
- North Bay – Dean's List Semi Finalist, FIRST Robotics Competition *March 2014*
- FIRST Robotics Competition team awards– 3 Regional awards(Finalist, Winner, Industrial Design) *March-April 2014*

EDUCATION

- Ontario Secondary School Diploma, Woburn Collegiate Institute, Scarborough, ON, 2014
- Candidate for Bachelor of Applied Science, Honours Systems Design Engineering, University of Waterloo, ON, Sept. 2014 – present