

# Janakitti Ratana-Rueangsri

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## EDUCATION

**B.A.Sc Candidate in Software Engineering**  
(expected 2024) - University of Waterloo

## SKILLS

**Languages:** C/C++, Python, Java, SQL, HTML, CSS

**Technologies:** Git, Unity, MySQL, Arduino, Firebase,  
Autodesk Inventor, Adobe Illustrator, Motion 5

## EXPERIENCE

**Intern - Petro Laboratories Inc.**

July 2019 - August 2019

- Recovered **over \$25,000** from outstanding invoices by streamlining the payment recovery process
- Prepared data tables for chemical analyses and performed tests for water content in oils

**Software Lead - Team 4308: Absolute Robotics | FIRST Robotics**

September 2018 - April 2019

- Programmed the computer vision system for the competitive robot using OpenCV and **led programming lessons** for new members
- Competed and qualified as FIRST Robotics **World Championship Divisional Semi-Finalists**
- Rebranded the *Absolute Robotics* organization and designed promotional material for fundraisers

## PROJECTS

**FedoraField | Unity, Adobe Illustrator**

- Developed a unique video game in which players interact with enemy projectiles using gravitational and electromagnetic fields instead of a weapon
- Utilized Unity **coroutines** to create a level loading system and an **adaptive soundtrack**

**Tangible | Arduino, Unity**

- Constructed a “universal touch-screen” accessory that can be installed via USB to **enable touch-screen capability** on non-touch screen monitors
- Programmed a system to process ultrasonic sensor input and map finger position for gestures

**Employee Management System | Java**

- Built a desktop application to manage employee profiles using **object-oriented programming**
- Implemented a custom-built **hash table** for efficient data access

## INTERESTS

- Graphic Design
- Animation
- Game Design
- Guitar
- Cinematography
- Volleyball

## ACHIEVEMENTS

2019 — President's Scholarship; 97% Grade 12 average

2018/19 — 2-time DECA Ontario Provincial Champion

2019 — FIRST Robotics World Championship