

# SAMARVEER SANDHU

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## EDUCATION

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**Ryerson University**  
**Computer Engineering (B. Eng.)**  
Expected Graduation: May 2023  
Dean's Honors List.

### Relevant Courses:

- Electric Networks ELE302
- Digital Systems COE328
- Algorithm/Data Structures COE428
- Microprocessor Systems COE538
- Database Systems CPS510

## EXPERIENCE

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**Home Depot Canada** May 2021 – Sep 2021  
**Tool Rental Associate**

- Performed preventive maintenance on tools
- Processed 50+ tool rental transactions and logging them into the database
- Maintained a high level of knowledge of 25-30 different tools

**Canada's Wonderland** May 2019 – Aug 2019  
**Sales Associate**

- Managed admission sales for different sectors
- Processed 100+ major transactions during each shift
- Handled 15-20 customer-service related problems per shift

**Toronto Police Service** May 2018 – Aug 2018  
**Fleet & Materials Management Technician**

- Completed preventive maintenance on 5+ vehicles per day, including oil change, tire rotation, wheel balancing and filter replacement.
- Accurately stored details of all service jobs plus stock on file
- Gained extensive knowledge of mechanical troubleshooting

## PROJECTS

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**Amplifier Design Project:** (Multisim)  
→ Designed and simulated single-supply multistage, inverting, and transistor amplifier

**General-Purpose Processor:** (Quartus)  
→ Creation of a general-purpose processor with the help of three different Arithmetic and Logic Units (ALU).

**Bookstore Application:** (Java / NetBeans)  
→ Simulated a bookstore application that had a responsive UI with the help of JavaFX

**State Machine:** (C / Command Line)  
→ Creation of a state machine that stores data to memory. Data is managed through commands presented from stdin.

## SKILLS

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### Programming

Java • JavaScript • C • C++ • Python • HTML • CSS • VHDL • Assembly • SQL

### Software

Arduino • Linux/Unix • MultiSim • Quartus • OracleSQL • Git • JavaFX

## CERTIFICATIONS

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Registered through IEEE Computer Society:

- Unix
- Git/GitHub
- SQL
- Python