

# COMPUTER ENGINEERING

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## SKILLS SUMMARY

### SOFTWARE

- C
- Java
- Python
- VHDL
- SQL
- HTML5
- CSS
- PBASIC
- MATLAB
- Adobe Photoshop
- AutoCAD
- Microsoft Office Suite

### HARDWARE

- Oscilloscope, Multi-meter, Function generator
- CPLD Chip
- Breadboard, Boe-bot
- Computer Hardware
- Arduino Uno

### KEY COURSES

- Engineering Algorithms
- Data Structures
- Electronic Circuits
- Electric Networks
- Software Systems
- Digital Systems

## EDUCATION

Ryerson University  
B.Eng Computer Engineering  
September 2017 – April 2021

SATEC @ W.A Porter C.I  
Math, Science, Technology Enriched  
OSSD Completed June 2017

## INTERESTS

- Staying up to date with current and innovative technology
- Competing in Hackathons
- Basketball Enthusiast
- Fitness
- Video Games

# WRICHIEK KAR

## WORK-EXPERIENCE

*May 2018 – September 2018*

### Bell Technical Solutions | Technician

- Installation, maintenance, and repair of fiber-based and copper-based telecommunications equipment, products and services
- Troubleshoot complex telecommunications products and systems using EXFO Power Meter, digital multi-meter and proprietary software
- Provide an exceptional customer experience for various clientele such as businesses and homeowners.

*September 2018 – December 2018*

### Ryerson University | Engineering Student Ambassador

- Represent Ryerson Engineering at various recruitment events with over 1000 prospective students
- Participate in on- and off-campus recruitment events, tour guide and presenter at events such as the Ontario University, and Ryerson Engineering Open House

*August 2016 - September 2017*

### Walmart | Cashier, Self-Checkout Attendant

- Demonstrated ability to persuade and sign up customers for the Walmart Rewards Mastercard
- Troubleshoot new machines to maintain adequate customer flow in a timely manner
- Responsible for balancing POS systems at the end of the day
- Exceed standards of customer service experience by maintaining a friendly and customer focused approach

## EXTRA-CURRICULAR

*September 2018 – Present*

### Ryerson Formula Racing, Hardware Engineer

- Code sensors for vehicle data collection using SAM C21 Xplained Pro
- Research and source most suitable parts for the microprocessors considering efficiency, price and simplicity
- Work alongside multiple sub teams to ensure product efficiency and optimize performance

*January 2018 – April 2018*

### Awards and Excellence Committee, Ryerson University

- Plan and host one of the most anticipated events of the year (Night of Recognition)
- Read and evaluated hundreds of applications to determine the perfect candidate for the award
- Heavily advertise form to maximize applications and ensure accuracy of awards
- Design awards and budget efficiently

## PROJECTS

*November 2018*

### Ryerson Engineering Competition, 3<sup>rd</sup> Place Winner

- Lead a team which incorporated a web application onto a website designed to help homeless people with suicide prevention. Used HTML, CSS and a Google chatbot API. The chatbot was tailored towards suicide prevention with custom responses by using common phrases as well as machine learning.

*May 2017*

### Robotic Arm

- Created a custom robotic arm using an Arduino to control the movements, allowing it to move at 3 critical points (base, lever arm, and claw). Designed all parts on AutoCAD allowing the utilization of a 3D printer which led to lowered cost and reduced weight. Wired the servos to critical points and powered it using a voltage source.

## ACCOMPLISHMENTS

- Ryerson Engineering Competition 3<sup>rd</sup> Place Programming Award
- Recipient of Engineering Academic Achievement Scholarship
- SATEC @ W.A Porter Honor Roll (maintain 80%+ average)

## CERTIFICATIONS

- CCNA1, CCNA2 (Cisco Certified Network Associate)
- WHMIS (Workplace Hazardous Materials Information System)
- EHS (Environment Health and Safety)
- Emergency First Aid with CPR A