

Parth Talati

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EDUCATION

UNIVERSITY OF TORONTO

Bachelor's in Applied Science, Computer Engineering + PEY Co-op

CGPA : 3.63

Relevant Coursework: Computer Fundamentals, Electrical Fundamentals

Toronto, ON

April 2029 – (Expected)

SKILLS

Hard Skills: Java, C/C++, Altium Design, OOP programming principles, GitHub, MATLAB, Python, Scratch

EXPERIENCE

CLIENT COLLABORATION – TALKING WALLS EXHIBIT, HART HOUSE, U OF T

Toronto, ON

Quality Assurance Coordinator

Jan 2025 – April 2025

- Collaborated as a team to design a **scissor-arm style extendable frame**, ensuring **adaptability for multiple print sizes** while meeting client needs for usability.
- Researched and selected **materials and mechanisms** to balance durability, weight, and cost-effectiveness.
- Developed a structured **project plan**, incorporating **stakeholder analysis, design iterations, feasibility assessments, and prototyping**.
- Engaged with the client through **presentations and feedback sessions**, refining the design based on their requirements

UNIVERSITY OF TORONTO FORMULA RACING TEAM

Toronto, ON

Electrical Sub team Member

Jan 2025 - Present

- Helped design and develop **custom PCBs** for the team's electric race car, optimizing performance, reliability, and power efficiency.
- Utilized industry-standard **PCB design software** (e.g., Altium,) to create schematics and layout designs

SURATI SWEET MART, LTD

Toronto, ON

Summer Intern

July 2023-Aug 2023

- Developed **marketing strategies**, using social media promotions
- **Handled retail work**, restocking inventory, **organizing displays** for a clean store environment
- Prepared and processed online sales orders, **ensuring accuracy** and timely fulfillment of placed orders

PROJECTS

Reversi AI Game

May 2025

- Utilized GitHub Codespaces to program a Reversi Game in C
- Developed a Minimax AI Algorithm with alpha-beta pruning to compete against human players
- Designed an **interactive game board** with move validation and real-time visual updates

Fire Alarm Relay Schematic

March 2025

- Utilized Altium Designer to create a schematic for a fire alarm relay switch.
- Developed a **detailed circuit schematic**, selecting appropriate **relays, resistors, diodes, and other components** for optimal performance
- Documented the design process, including **component selection, circuit behavior analysis, and troubleshooting steps** for future improvements

LAMP Web Server with WordPress on Raspberry Pi

September 2023

- Set up a **LAMP (Linux, Apache, MySQL, PHP)** stack on a **Raspberry Pi** to host a self-contained web server.
- Installed and configured **WordPress**, enabling website deployment and content management.