Enzo Panem

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SKILLS

- **Languages:** Java, Python, C, JavaScript/TypeScript, HTML5, CSS3, Verilog/SystemVerilog, RISC-V
- **Frameworks|Tools:** MongoDB, Express, React, Node.js, Nest.js, Spring Boot, Docker
- **OS|Applications:** Linux (Ubuntu), MacOS, Windows, Jira, Confluence, Bitbucket, Git, Figma, Adobe CC

EDUCATION

Lassonde School of Engineering, York University, Toronto, ON   *Expected Apr 2025*
- **Major:** Spec. Hons. Bachelor of Engineering (B.Eng), Computer Engineering | 3.55/4.0 GPA
- **Software Coursework**: Design Patterns, Data Structures & Algorithms, Networks, Operating Systems, Computer Vision
- **Electrical Coursework**: Robotics, Signal Processing, Embedded Systems, Logic Design, Electronic Circuits
- **Awards:** Michael H. Lawee Memorial Awards in Sci & Eng ($2400 Scholarship)

EXPERIENCE

Events Coordinator — Filipino Student Association at York (FSAY)   *Sep 2023 - April 2024*
- Promoted Filipino cultural awareness on-campus, contributing to increased engagement within the community
- Communicated expectations on any concerns or adjustments to ensure smooth execution on event day
- Organized event itinerary including accessibility, scheduling, and social activities such as games/icebreakers
- Delegated tasks among council members to optimize coordination and achieve event objectives effectively

Software Developer Intern, AI Automation Team — Capco   *Toronto, ON | Jan 2023 - Aug 2023*
- Pioneered an AI automation R&D project by ideating main features and harnessing OpenAI's ChatGPT API
- Practiced AGILE approach using Jira to deliver consistent results with reliable and streamlined communication
- Composed test suites using JUnit and Mockito to validate functionalities of our Java middleware service
- Troubleshooted to resolve complex bugs/issues within a sophisticated workspace in a timely manner
- Leveraged Confluence to create comprehensive and visually engaging onboarding guides for our stakeholders
- Developed a compact security endpoint for a token generator utilizing JWT authentication

Re-Engineering and Programming Lead — York Engineering Competition (YEC)   *Sep 2022 - Nov 2022*
- Authored multiple competition challenges that encourage diverse and innovative solutions
- Composed the competition rulebook with meticulous detailing of the deliverables, scoring criteria, and events
- Counseled 20+ Re-Engineering teams by providing meaningful guidance with design development
- Administered competition logistics such as venue coordination and managing event communication channels

PROJECTS

React Personal Portfolio — HTML, CSS, JavaScript, React, OpenAI API   *Ongoing*
- Structured and styled web page with HTML and CSS to produce a simple yet aesthetically pleasing layout
- Implemented React JSX to create components of add, delete, and edit tasks for efficient UI rendering

Autonomous Robot Navigation System —ROS2, Python, Gazebo
- Designed an autonomous robotic navigation system using ROS2 and the Gazebo simulation environment
- Employed LIDAR sensor data to generate an occupancy map, crucial for detecting obstacles in the environment
- Utilized RRT algorithm to generate a network of nodes on an occupancy map to facilitate efficient path planning
- Implemented Dijkstra's algorithm to ensure the robot's optimal navigation in dynamic environments

Car Proximity Sensor — SystemVerilog, Intel Quartus Prime, DE-10 Lite FPGA
- Created a functional prototype proximity sensor using a hardware description language and FPGA
- Designed a power-conservative electrical circuit connecting components: ultrasonic sensor, LEDs, buzzer
- Documented a report presenting the in-depth logic process: combinational circuits, schematics, state machines

UNHack 2021
- Orchestrated major team developments, achieving a top 8 finalist placement amongst 200+ contestants, pitching our mobile app solution to a panel of entrepreneurial-minded judges

INTERESTS

- Long Distance Running, Music Production, Piano, Film Enthusiast, Fashion