

# Lalit Mada

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## PROFILE

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4th-year systems engineering student with object-oriented programming, embedded systems, and CAD design. Currently seeking a co-op/internship available for May-December 2025.

## EDUCATION

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### University of Guelph

Guelph, ON

Bachelor of Engineering, *Engineering Systems & Computing*

September 2021 - Present

CIS 2520: Data Structures, ENGG 1440: Object-Oriented Programming, ENGG 3130: Modelling Complex Systems

## WORK EXPERIENCE

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### Canadian Nuclear Laboratories

Chalk River, ON

Maintenance & Configuration Engineering Student

January 2024 - August 2024

- Conducted 14+ sitewide PSV inspections to assess and execute re-design needs, involving supplier sourcing, developing a bill of materials, designing AutoCAD drawings, and proposing change requests to higher-ups.
- Wrote technical documents for Pressure Boundary Maintenance by updating 5 PSV Maintenance procedures, providing accurate reference info for engineers performing on mechanical systems.
- Used Excel to organize Sec. III ASME component inventory to reflect on-site storage specifications.
- Successfully trained and certified to work in Group 3 Radiological Zones, gaining proficiency in personal protective equipment (PPE) usage, and contamination control measures.
- Received training on effective ECC database (Engineering Change Control) usage to perform effective engineering design request principles in a corporate environment.

### Cintas

Cambridge, ON

Engineering Intern

June 2023 - September 2023

- Used SAP to maintain inventory status of garment shipments, ensuring that database info reflects physical storage and resulting in 95% accuracy of inventory turnover.
- Responsible for executing time-sensitive client orders, packaging client uniform shipments with speed and accuracy.
- Developed communication and team-player skills working in cross-functional teams.

## PROJECTS

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### C Programming

"Blackjack" | C, Git, Data Structures

- Developed a C-coded Blackjack game, utilizing linked lists for dynamic memory management and file I/O.
- Debugged and tested code, while maintaining source control using Git.

### Embedded Systems in ARM Assembly Coding

Motion-Detecting Security System | C, FreeRTOS, STM32 Microcontroller Design

- Built a FreeRTOS-based system on STM32 to capture, decode, and display images on an LCD screen.
- Implemented low-level programming with real-time resource allocation for camera, sensor, and LCD operation.

## EXTRACURRICULARS

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### Guelph Intramurals Basketball, Men's 5v5 Competitive

Team Co-Captain,

- Organized and led practice sessions for a team of 9 players, achieving a playoff position.

### L.I.T Program

Certified Leader In Training (L.I.T), YMCA Cambridge

- Gained experience in organizing activities and fostering collaboration in team environments.

### Steve Nash Basketball League,

Instructor, Volunteer

- Assisted in event planning, coaching, and scheduling in collaboration with YMCA staff.

## SKILLS

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**Tools/Languages:** Python, C, Java, HTML, CSS, FreeRTOS, VHDL, STM32, MATLAB, HTML, R, SolidWorks, Excel, AutoCAD, SAP, OOP, Data Structures, RTOS, Arduino, Git, Conda, Jira, Jupyter