

Ezaan Ahmad

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Driven Engineer-in-Training (EIT) with hands-on experience in mechanical design, project coordination and electrical systems, with a strong focus on process optimization and control systems. Proven ability to deliver engineering solutions in manufacturing and sustainability-focused environments through work with I.B. Storey and Allan Equipment Mfg. Experienced in CAD design, automation systems, and data-driven decision making, with practical exposure to project coordination, scheduling, and technical documentation. Proficient in SolidWorks, Solid Edge, Autodesk suite, MATLAB, and Microsoft, with additional strengths in process improvement and cross-functional collaboration.

CORE SKILLS

Mechanical Design	Project Management	Controls & Automation
Technical Presentations	Client Communication	Prototype Development

EXPERIENCE

Project Specialist

Sep 2025 – Jul 2026

I.B. Storey, Inc., PE

- Supported engineering and operations teams in executing risk development projects, working alongside a broader delivery team to ensure alignment with technical requirements and project specifications.
- Assisted in project planning and execution by creating schedules, tracking milestones, and coordinating deliverables across multidisciplinary teams.
- Obtained and compared pricing from subcontractors and suppliers, negotiated costs, and recommended qualified subcontractors for hire.
- Prepared quantity takeoffs, RFIs, shop drawings, progress claims, and tender submissions in support of project estimating and documentation.
- Conducted risk assessment reports for ammonia refrigeration systems, identifying component level hazards, creating risk profiles, and combining them into a weighted overall system risk profile.
- Developed technical drawings, process layouts, and system documentation using Solid Edge and Visio for automation workflows and system integration.

Electrical Engineering Intern

May 2024 – Sep 2024

Allan Equipment Manufacturing Ltd., PE

- Spearheaded a machine vision project to successfully monitor and control machinery outputs in real-time, using YOLO algorithms integrated with OpenCV on a Linux platform, while coordinating procurement for system implementation.
- Programmed PLCs using CODESYS to control motors in complex agricultural machinery systems, creating user-friendly GUIs for seamless interaction and monitoring of interconnected systems.
- Utilized Autodesk suite to design harnesses, control panels, wiring schematics, detailing connectors and wire sizes to ensure safety and functionality.

EDUCATION

BSc in Sustainable Design Engineering

Sep 2021 - May 2025

Specialization in Sustainable Energy Engineering

University of Prince Edward Island

- Graduated First Class Standing as a two-time Dean's Honours List Recipient
- Winner of the Canadian Society of Mechanical Engineers' Gold Medal Award
- Winner of the Most Innovative Design Project Award
- Recipient of the Public Speaking Professional Award by The UPEI Engineering Society
- Awarded the Best Business Solution while representing UPEI at ENGCOMM Case Competitions.

PROJECTS

Potato Seed Cutting Solution

Sep 2024 – Apr 2025

Allan Equipment Manufacturing Ltd., PE

- Redesigned current industry potato seed cutting solutions using a novel approach, allowing for a massive reduction in waste generation and increasing seed viability.
- Received the CSME Gold Medal for demonstrated engineering innovation, leadership, and mechanical design excellence.
- Successfully designed an industrial solution to slice potatoes at high speeds using a custom stainless-steel blade, achieving a net throughput of 20 tons/day, allowing to cultivate over 300 acres per season.
- Designed and built an industrial electrical control system to ensure adequate functioning of the whole system using three-phase, 208V input power.
- Automated the cutting process using a PLC by processing data from sensors and demonstrating precise motor control.
- Created drawing packages involving 3D models, engineering drawings, electrical schematics, layouts, and wire lists.

Real-time Open Seal Detection

Sep 2023 – Apr 2024

Cavendish Farms, PE

- Redesigned the loss detection system at Cavendish Farms using Infrared (IR) sensing technologies to reduce packaging losses by over 20%.
- Promoted efficient communication between student team, clients, and technicians.
- Utilized MATLAB to observe seal temperature profiles through Infrared sensors, to build a program tracking real-time changes in production.
- Crafted CAD models of conceptual designs and prototype drawing plans using SolidWorks.
- Maintained a live Gantt chart and Bill of Materials using Microsoft Excel to monitor resource usage and ensure compliance with the budget.

TECHNICAL & PROFESSIONAL SKILLS

Computer Aided Design (CAD)

- SolidWorks, Autodesk Inventor & Solid Edge: Experience designing mechanical parts, 3D assemblies, P&IDs, HVAC systems, electrical panels, harnesses and wiring schematics.
- Autodesk Revit: Familiar with basic functionalities and actively expanding knowledge.
- AutoCAD Electrical: Electrical panel layouts, wiring schematics, harness design, and electrical system documentation.

Computing

- MATLAB, Simulink & Simscape: Engineering analysis, data processing, modelling, and simulation; certified through MathWorks Onramps.
- Python: Machine vision for product detection, counting, and analysis.
- Microsoft Office & Visio: Technical documentation, process diagrams, scheduling, and project tracking.

General

- Developed timelines, tracking deliverables, and supporting project execution using structured planning tools.
- Recognized for excellent communication skills, including a Public Speaking Award and experience presenting technical solutions to clients and stakeholders.
- Strong client collaboration experience, ensuring clear project alignment with stakeholder needs.
- Successfully built multiple prototypes in collaboration with engineering technicians and production teams.
- Exposure to procurement and operational workflows through real-world project and internship experience.
- WHMIS certified since 2021, with a strong track record of safe work in individual and team settings.
- Fluent in English (IELTS 8.5), Hindi, and Urdu, enabling broad communication across diverse teams.