

PROFESSIONAL EXPERIENCE

Walmart

Sept 2019-Present

Claims associate

- Handling product returns and recalls.
- Processing merchandise received at claims. Increased CVP percentage.
- Maintaining Market place, E-Waste and Sort skids.
- Adjusting inventory counts promptly through smart.
- Increased donations by reducing waste and sort returns. Promptly returning MP, E Waste skids through LTL.

ADI Accelerator Montreal

May 2014 – Sep 2014

- Worked on wearable to predict UV index.
- Predicts amount of SPF to be used.

District3 Innovation Center - Concordia University

June 2013 – Sept 2013

- Designed a posture correcting smart chair using electronic fabrics.
- Sensed the posture movement using piezoelectric strip and ATmega328.
- Contributed as Electrical lead and awarded "Jury's Pick" by a panel of 6 judges.
- Designed power supply for the smart chair.

Technical Environment: Embedded C, Power electronics and project management.

Research Assistant – Concordia University

June 2013 – Oct 2013

- Assisting Dr. Sheldon Williamson on documenting his book on Energy Management Strategies for Electric and Plug-in Hybrid Electric Vehicles.

Teaching Assistant – Concordia University

2011 - 2012

- Graded assignments, provided student support.
- Courses are Power Electronics 1, Fundamentals of Electrical Power Engineering and Power Electronics 2.
- Provided specialized assistance by individually meeting students.

EDUCATION

Codegnan IT solutions

Jan 2025 – June 2025

- Learned frontend, backend technologies, and frameworks.
- Learned **core java, jdbc, jsp, jstl, hibernate, jpa, spring core, spring data jpa, spring boot, spring mvc, spring RestAPI, Github version control, JUNIT,HTML,CSS, Bootstrap, JS and AWS.**

Master of Engineering- Electrical and Computer Engineering (CGPA 3.68/4.3)

2013

Concordia University, Montreal, Canada.

- Member of **Golden Key International Honour Society** and the **Institute for Co-operative Education.**

Bachelor of Technology in Electrical and Electronics Engineering

Acharya Nagarjuna University, (K.L.U) India. **Graduated with distinction.**

PROJECTS:

Online food delivery App

- Used Spring boot framework for the project. MVC pattern was followed.
- Four Modules pattern was followed @Controller,@Service,@Repository and @Entity.
- @Autowired DI, @RequestMapping,@ModelAttribute and @RequestParam attributes used.
- Custom HQL quires were written. Boilerplate code was reduced. CRUD operations were performed.

Technologies Java, JSP+JSTL, HTML, CSS. **Frameworks:** Spring boot, Bootstrap, Hibernate HQL. **Database:** MySQL

- Also Performed the project using Servlets and JSP+JSTL technologies.
- DAO layer is used to interact with database.
- Boilerplate Code to connect with Database, retrieve and display data. Specific queries written for each CRUD operations. Lot of Servlets for different end points.
- Hard to maintain and scalability is cumbersome

Technologies Java, JSP+JSTL, HTML, CSS. **Frameworks:**Bootstrap. **Database:** MySQL,JDBC.

Hospital Management System

- Backend developed using Spring Boot ReST API.
- Four Modules were used @RestController,@Entity,@Service and @Repository.Jason format is used for data transfer. Many to One and One to Many relationships examined.
- @RequestMapping, @PostMapping, @GetMapping, @PutMapping and @deleteMapping used.
- @JsonIgnore is used to avoid infinite looping. CRUD operations are performed.

Technologies Java. **Frameworks:** Spring boot, ReST API.. **Database:** MySQL **Tools** PostMan

TD website clone

- Replicated the website as it is.
- Implemented bootstrap concepts font awesome, CSS and HTML.

Technologies: Java, CSS, HTML. **Frameworks:** Bootstrap, font awesome.

Keeper App Project

- Performed JSX code, JS expressions, JSX attributes, Inline Styling, React Components, ES6, props,.
- Used React Dev Tools to debug. Mapped Components, Conditional Rendering, React Hooks and Destructuring concepts used.
- App is to add and deletes the notes. Styled using material UI.

Technologies: JS, HTML, CSS. **Framework:** React, React-dom, material UI. **Tools:** Code SandBox.

ACADEMIC PROJECTS

Genetic algorithm based approach for optimization of Economic load dispatch

- Proposed efficient and practical genetic algorithm for solving economic dispatch problem.
- Minimized total generation fuel cost and maintained the power flow within the security limits.

Battery Grid Interface using SCR's

- Controlled output inductor current and different methods were analyzed for smooth switching of voltage.

State space modeling of sep. ex. DC machine and 2-Q control using controlled rectifier

- Designed current controller and speed controller.

Discrete Time Controller Design for a Two-DOF Helicopter

- Utilized Root Locus Technique to design single input single output controller.
- Investigated effect of coupling on the system model.

Control Strategy of Series and Parallel Hybrid Electric Vehicles

- Analyzed series and parallel hybrid in 2x2 architecture.
- Designed state flow charts for engine to analyze. Simulated with help of advisor by using MATLAB.

Inverted Pendulum control

- Developed non linear mathematical and linearized model.
- Designed, simulated & evaluated the results for an optimal linear quadratic regulator (LQR) controller and a PID controller to control the cart position and pendulum angle.

Analysis of ZCS and ZVS with Buck Converter

- Increased filtering in resonant converters to achieve ideal output.
- Absorbed hard switching while operating under overload conditions

Energy harvesting using piezoelectric materials-Battery Charger

- Designed a Switch Mode Power Supply to charge 3.7 volts lithium-ion battery.

Design of wind energy system for a house

- Provided an insight on the factors to consider while selecting wind turbines, batteries and inverters.

COMPUTER SKILLS

- **Software Packages:** Microsoft Office, Homer, Smart Plant Instrumentation, Mutlism, Labview, Visio, MATLAB/SIMULINK and supporting toolboxes, PSIM, PSpice, Microsoft office, Visio and QAlight testing tool, JAVA, CSS, HTML.
- **Frameworks:** Bootstrap, Spring Boot, ReST API, Spring MVC, React. JS ,Code Sandbox.
- **IDE's:** VS Code, Eclipse and IntelliJ IDEA.
- **Tools:** Postman
- **Database:** MySQL.
- **Power System Software's:** CYMDIST-5.0, CYMCAP, EMPT-RV, ETAP and RETscreen.
- **Platforms:** Windows, DOS and Linux.

LANGUAGE SKILLS

- English, French (conversational), Hindi and Telugu.

VOLUNTEER WORK

Canadian Breast Cancer Foundation CIBC Run for the Cure

2012

CanWEA's International Wind and Radar Forum, Ottawa Convention Center

2011

Canadian Wind Energy Association, Palais des Congres de Montreal

2010

Engineers without Borders, Concordia University, Montreal

2010

References Available upon request.