

# DARVIN PATEL

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## PROFILE STATEMENT

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Graduating engineering student with strong interest in sustainable energy and applications of biological materials with excellent intercultural, communication, AutoCAD, data collection and analysis skills, seeking a professional full-time job.

## EDUCATION

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**Bachelor of Sustainable Design Engineering** **January 2018 - present**

University of Prince Edward Island, Charlottetown PEI

- Major: Sustainable Energy and Minor: Bioresources

**Diploma in Mechanical Engineering** **June 2014 - June 2017**

R.C. Technical Institute, Gujarat India

- Major: Manufacturing Engineering and Minor: Thermal Engineering

## RELEVANT PROJECT EXPERIENCE

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**Project Manager of Spudnik-1 CubeSat satellite team** **September 2020 - Present**

University of Prince Edward Island

- Acting technical member and project Manager of 5 team members in developing communication network for the innovative, proof-of concept CubeSat satellite-based imaging payload to acquire high resolution data that will help agricultural growers to manage agriculture inputs on an as-needed basis to ensure economic and environmental sustainability.

**Technical member for the Acadian Supreme Project** **September 2019 - April 2020**

University of Prince Edward Island

- Collaborated with a small team from concept to design process to develop and prototype a lobster holding tank along with maintenance and operational manuals using solid works, Minitab and Microsoft Office programs, which enhanced power and water efficiency by 30 percent.

**Leader for the Roller Drum Dryer project** **November 2018 - April 2019**

University of Prince Edward Island

- Developed a new design system using the Solid works software which would enable multiple viscous liquids to spray on the roller drum dryer and diversified the types of viscous liquids in the existing system.

**Design member for the Movement of Stores** **September 2018 - November 2018**

University of Prince Edward Island

- Designed a rolling mechanical system using the gravitational force which enables supplies to be easily moved from docks to ship's storeroom which can cut down the physical strain on the crew members.
- Generated the detailed report showing the working mechanism of the design and presented the final report to industry partners, faculty members and Navy officials.

## TECHNICAL SKILLS

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- **Data collection and analysis:** Four years relevant experience in collecting, analyzing data and completion of technical reports.
- **Software's:** Proficient user of Microsoft office programs, HOMER, MATLAB, AutoCAD, Solid works, Minitab.
- **Machining:** Comfortable working with Lathe, Milling and gear hobbing machines.
- **Reverse Engineering:** Ability to work independently or part of a group to reverse engineer using problem solving.
- **Research:** Used variety of research methods such as observational, experimental, simulation and derived to inform a working ability of a materials for a product research.

## SKILLS HIGHLIGHTS

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- **Client Relations:** Developed an excellent customer service rapport by communicating frequently via phone call, email, online or in-person meetings and incorporating feedback.
- **Communication Skills:** Excellent verbal and written communication with fluency in English, Hindi and Gujarati.
- **Team Management:** Productive and Collaborative team member by Maintaining good relations with clients and group members.
- **Organizational skills:** Used time tracker and Gantt chart within Microsoft Excel to ensure the time management of projects.
- **Report and presentation skills:** Present projects through reports and presentations to clients and faculty members on a regular basis.

## ACCOMPLISHMENTS

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- **Newspaper articles:** Featured in news articles for innovative engineering projects which caught the attention of research professor in another state in India.
- **Diamond Award Scholarship 2019:** Recognized for contributions in sustainability leadership and campus spirit.
- **Adversity Award Scholarship 2020:** Scholarship to the students who have experienced unexpected hardship in there past year.
- **Engineering Sustainability Award:** In recognition of best integration of engineering sustainability in the senior design clinic (Year 3).

## OTHER EXPERIENCES

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### UPEI CAMPUS VOLUNTEER ACTIVITES

**September 2018- Present**

University of Prince Edward Island

- Volunteered at Mental health week, volunteer tax clinics, multicultural activities and Student orientations.

### ENGINEERING PROFESSIONALIZATION

**December 2021 – Present**

University of Prince Edward Island

- Completed series of 8 workshops on communication and labour market literacies, which further developed professional communication and will take part in experimental components such as industry panel and interviews.