

Ricky Patel

169 Vassar Rd, Poughkeepsie, NY 12603
845-214-7503
patelrx7@gmail.com
Rickypatel.tech

Mechanical Engineer with a passion for problem solving and programming.

Education:

Clarkson University, Potsdam, NY May 2018
Bachelor of Science, **Mechanical Engineering**
SUNY Dutchess Community College, Poughkeepsie, NY May 2016
Associate of Science, **Engineering Sciences**

Technical Skills:

- Programming: JavaScript, React, CSS, HTML, C++
- AutoCAD, SolidWorks, MatLab, CFD, and Fluent,
- Microsoft Office – Word, Excel, PowerPoint

Engineering Experience:

Senior Design - Orbital Debris Mitigation, **Clarkson University**, Potsdam, NY Fall 2017- 2018

- Worked on a team to develop Mission Planning and re-fueling technology
- Presented at AIAA Region 1 Student Conference

Independent Student Research, **Clarkson University**, Potsdam, NY January 2017- 2018

- Building and testing a bladeless wind energy generator
- Worked with shop to develop technical communication skills

Heat Transfer Analysis of CPU Heat Sink, **Clarkson University**, Potsdam, NY January 2017- 2018

- Designed and tested a CPU Heat sink using SolidWorks for EoS assignment

Torque Transmission for a Wheelchair, **Clarkson University**, Potsdam, NY Spring 2017

- Built a 2:1 gear ratio transmission for a wheelchair
- Design, modeling, assembly, and testing done on SolidWorks

Work Experience:

Staff Engineer II, **Tectonic Engineering**, Newburgh, NY June 2018 – Present

- Design and modeling of steel structures for telecommunications equipment in NYC using RISA-3D.
- Structural Analysis and modification design of telecommunications equipment in NYC and NJ in accordance with the requirements of ANSI/TIA-222-G-2005.
- Working collaboratively on various telecommunications projects with engineers, construction teams, and designers to assist in the process of providing high-quality deliverables to our clients
- Design, inspection, and coordination of all phases of civil/site development, including new site builds, site layouts, and site modifications and upgrades on telecommunications and industrial facilities projects, as well as perform structural analyses on wireless telecommunications sites

Sales Support Generalist, **Victoria's Secret**, Poughkeepsie, NY July 2014 – December 2017

- Executes floor sets in order to uphold the brand vision and maintain visual standards
- Lead processor for VSL Merchandise and training of new employees
- Drives sales growth by flexing into multiple areas of the store including selling, cashiering, processing, replenishing, and setting floor sets
- Assists with maintenance and organization of backroom in a \$7 million volume store
- Builds and grows high performing teams by training new associates, including mentoring and serving as a shadow partner
- Demonstrates a sense of urgency to complete projects, including processing upwards of 1,000 new merchandise receipts weekly
- Analyzes business results to gain insight into opportunities and develop strategic solutions

Extracurricular Activities:

Formula SAE, **Clarkson University**, Potsdam, NY August 2016 – May 2017

- Worked on chassis team to develop tube frame in SolidWorks and build from scratch.

HPDE Driver, **NASA – NE**, NY June 2018 - Present

- Actively involved in high performance driving events and volunteering at autocross events.
- Hands on experience with engine swaps (91 Mazda RX7), transmission swaps, suspension installs, and clutch jobs.