

# Tej Patel

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## Summary

Detail-oriented Systems Engineer with foundational experience in the defense and pharmaceutical industries. Successfully led a heavyweight shock test project meeting MIL-S-901D standards for the Main Propulsion Motor Drive at General Dynamics Electric Boat and played a pivotal role in enhancing warehouse capacity by 160% at Hikma Pharmaceuticals. Eager to apply engineering expertise to drive project success and innovation in future roles.

## EDUCATION

### DREXEL UNIVERSITY Philadelphia, PA

Sep 2018 - Jun 2023

*Bachelor of Science, Mechanical Engineering*

- **Achievements:** Dean's List, A.J. Drexel Scholarship, Drexel Grant, Gearin' Up Scholarship, R. Greenwalt Scholarship

### TECHNICAL UNIVERSITY OF DENMARK Kongens Lyngby, Denmark

Aug 2021 - Dec 2021

*International Exchange Program*

## SPECIALIZED SKILLS

- **TECHNICAL SKILLS:** Arduino, Fusion 360, MATLAB, Microsoft Suite, Microsoft Project, Technical Writing, Siemens TeamCenter
- **FABRICATION SKILLS:** 3D Printing, Cricut, Laser Cutting, Machining, Soldering
- **INTERESTS:** Formula 1, Bollywood Fusion Dance, True Crime, Traveling, Golf

## PROFESSIONAL EXPERIENCE

### GENERAL DYNAMICS ELECTRIC BOAT

Oct 2023 - Present

*Component Systems - Engineer I*

*New London, CT*

- Authored dozens of technical documents, including test report acceptance letters, non-conformance response letters, teleconference reports, and funding approval letters, which enhanced project communication and supported decision-making processes
- Provided continuous leadership support in the absence of a supervisor by answering technical and project-related questions, leading team meetings, and overseeing day-to-day operations, which ensured continuity and efficiency
- Led the heavyweight shock test project for the Main Propulsion Motor Drive, ensuring all MIL-S-901D and Electric Boat requirements were met. Responsibilities included material procurement, scope definition for upgrades, factory testing coordination, and test procedure review, which ensured compliance and successful test outcomes
- Utilized Siemens TeamCenter and other business enterprise tools to track and manage over 25 open liabilities and construction issues related to the Main Propulsion Motor Drive, ensuring timely resolution and alignment with project timelines and quality

### XYNTEK INC.

Mar 2022 - Jun 2023

*Automation Controls System Engineer Co-Op*

*Newtown, PA*

- Developed 2D mechanical and electrical drawings using Fusion 360 and AutoCAD, respectively, which facilitated the manufacturing of pharmaceutical machinery components
- Facilitated cost tracking initiatives for 8 projects by managing bill of materials, budget quotes, and purchase orders, ensuring budget adherence and cost efficiency
- Assembled custom components, framing, and conveyors to support final product manufacturing and performance testing, contributing to improved production efficiency
- Strengthened product design and test processes by designing and creating 3D assemblies for components like robot grippers, rail systems, and mounting brackets, enhancing product reliability

### HIKMA PHARMACEUTICALS

Mar 2021 - Sep 2021

*Project Engineer Co-Op*

*Cherry Hill, NJ*

- Designed site approved 2D engineering drawings using AutoCAD to support projects intended to increase warehouse capacity by 160% and meet FDA requirements for cGMP facilities.
- Generated change control and commissioning documents to execute tasks, ensuring continuous FDA compliance in drug production processes
- Optimized budget and schedule for 5 projects by establishing quotes, cost estimates, and task overviews, leading to more efficient project execution

## TECHNICAL PROJECTS

### AUTOMATED CROP COLLECTION SYSTEM

Sep 2022 - Jun 2023

- Design, build, and test a pick-and-place SCARA robot intended to harvest romaine lettuce in a vertical farming structure to refine vertical farming harvesting processes.