Aniruddha Doke

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Product Design | SolidWorks | Mechanical Design | 3D Printing | Mechanical Testing | ANSYS | Thermal Analysis | Six sigma foundations | Research Skills | Product Testing | Project Development | Root Cause Analysis | Troubleshooting

Mechanical Engineer / Mechanical Design Engineer

Summary:

- Skilled and detail-oriented Mechanical Engineering graduate. Keen interest in Project Management, Automation, Manufacturing, and Engineering Management.
- Skilled at managing projects and communicating effectively between peers, vendors, and end-users.
- Machinery skills include 3D printing, Fabrication, CNC milling machine, and water-jet cutter.
- Involved in all phases of SDLC including requirements gathering, implementation, and process enhancement documentation.
- Computer competencies include CAD programs, MATLAB, MySQL, Arduino IDE, HTML, Linux, JavaScript, ROS, Lab View, Siemens SIMATIC, Microsoft Project, and MS Office applications.

Education:

Wentworth Institute of Technology, Boston, MA **Aug 2022**

- Bachelor of science in Mechanical Engineering **GPA: 2.72**
- **Relevant Coursework:** Differential Equations, Multivariable Calculus, Thermodynamics, Mechanics of materials, Statics, Circuit theory, Chemistry, Fluid Mechanics, Design of Machine elements, Manufacturing processes, Thermodynamics 2, Heat transfer, simulation-based design

Certifications:

- OSHA 10-Hour General Industry Safety and Health course completion. (2015) **|** Solidworks Mechanical Design Certification (2018)
- Solidworks Simulation Design Certification (2022) **|** PROCORE Technologies Student certification (2021) | OSHA 10: Construction
- Industry Outreach Training Course (2022) **|** UL MEWP Certificate of Completion (2022) **|**UL RF Training Certificate of Completion (2022) **|** American Red Cross Certification of Adult First Aid/CPR/AED (2022 - 2024) **|** FAA - UAS Remote pilot certificate (2023 - 2025)

Technical Skills:

- **Computer-Aided Design:** Creo PTC (Pro E), AutoCAD, CATIA, Autodesk **| Computer-Aided Engineering:** SOLIDWORKS Simulation
- **Technical Ability:** Engineering Design, Circuit Building, Power Tool handling, 3D Printing, Simulations, LABVIEW
- **Management skills:** Product validation, Project Coordination, Team management, Vendor Handling.
- **Hardware:** Machining-Mills, Lathes, CNCs, Angle Grinders, Arc welders, Bandsaws, Drill presses, Grinders, Chop saws, Basic Hand tools, Welding Tools, Sheet metal fabrication
- **Expertise Area:** Mechanical system Design, Computation Fluid Dynamics (CFD), Computer-Aided Design, Production Process, Material Selection, GD&T ASME Y14.5, Sheet Metal & Plastics Design.

Work Experience

Field Engineer | Structural Components, Rutland, MA **Nov 2022 – Sept 2023**

- Conducted precise inspections of varied telecom towers, measuring components, cables, and antennas at elevated locations.
- Performed remote fieldwork, specializing in telecom infrastructure analysis, maintenance, and installation, involving work at considerable heights, including the removal and replacement of tower components, steel structures, and antenna panels.
- Generate reports for clients that include vital information about towers, such as dimensions, structural soundness, health status, and the equipment mounted on them, encompassing tower mapping, DDSA, and mount mapping.

BIM/VDC Intern | Wise Construction, Winchester, MA **Sept 2021 – Dec 2021**

- Developed scans and modeled mechanical, electrical, and plumbing systems during the construction of medical laboratories.
- Created virtual 3D space of the construction site utilizing sophisticated laser scanners and point clouds.
- Used AutoCAD for creating technical models of building systems such as generators.
- Recording construction progress and coordinating with multiple teams, managers, engineers, and architects to resolve compatibility issues.

Mechanical Engineering Intern | Hamilton Storage Technologies, Hamilton, Franklin, MA **March 2021 – April 2021**

- Designed medical storage system parts on Solid works, and applied changes to parts and system assemblies with engineering change orders.
- Updated documents as work procedures, and part drawings, and tested new technologies/designs by prototyping parts for holding test tubes.
- Collaborate in cross-disciplinary teams to develop integrated technological solutions for clients across multiple industries
- Clearly communicated work for team & clients and developed robust mechanical designs through sketching, physical prototyping, and 3D CAD.
- Participate in the entire design process: research, brainstorm, prototype, and test Design, analyze, and validate mechanical systems/ electrical hardware and firmware.

Projects

Ready Set Go: Hackathon (HackWITus 2018). **Fall 2018**

- Developed a smartphone application using Google's Firebase SDK dedicated to personal health.

Final Capstone Project: Superconductor roller-coaster **Summer 2022**

- Researched and manufactured a scale model rollercoaster that utilized the meissner effect to remove physical contact between the track and cart and produce a near frictionless ride.