

Veer Sanghvi

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SUMMARY

Mechanical Engineering student at Wentworth, now on a manufacturing co-op inspecting transmission components against OEM tolerances. Designed a fire suppression system on which the parent company filed a patent; ran 50+ IS, UL, and FM standards tests on fire protection products. Available full time from January 2027 for a Mechanical Engineering Co-op in manufacturing, product development, or fire protection.

EDUCATION

Wentworth Institute of Technology

Expected Aug 2027

Bachelor of Science, Mechanical Engineering

Boston, MA

- **Achievements:** President's Award Scholarship
- **Publication:** "Inspection and Quality Control Robots." Accepted, IEEE ICACR 2026 (Nanjing, China, Oct 2026).
- **Publication:** "Hot Engines and Fire Prevention." Abstract accepted, ASTFE TFEC 2027 (Dallas, TX).
- Coursework complete Summer 2026; the Spring 2027 co-op is the final degree requirement.

EXPERIENCE

Moveras, LLC

Aug 2026 - Dec 2026

Manufacturing & Operations Co-op

Salem, NH

- Inspect worn transmission components on a lean clean-room remanufacturing line; measure thickness and clearances against OEM tolerances and disposition each core for reuse or scrap.
- Track cycle times and defect rates on the production floor and work with the assembly team to clear bottlenecks; assembly-area efficiency up about 20%.
- Support root cause analysis and corrective actions on failed transmission components; update SOPs and work instructions as processes change.

Eurotech Cylinders Pvt. Ltd

Jul 2024 - Dec 2024

Mechanical Engineering Intern

Mumbai, India

- Managed inventory of 500+ fire protection SKUs (extinguishers, suppression systems, detectors, sprinklers, leak-detection units) across two factory floors.
- Ran per-batch quality tests on fire extinguisher cylinders and confirmed compliance before dispatch.

Nitin Fire Protection Industries Ltd

Mar 2020 - Aug 2021

Mechanical Engineer

Jul 2020 - Aug 2021

Engineering Intern

Mar 2020 - Jun 2020

- Ran 50+ pressure, leak, and reliability tests on fire protection products on calibrated test rigs, logged results, and confirmed IS, UL, and FM compliance before shipment.
- Deployed fire suppression systems at data centers and Vodafone Idea telecom sites across India.

PROJECTS

Fire Suppression System with Heat-Based Leak Detection

- Designed a fire suppression system with heat-based leak detection; the parent company filed a patent on the design.

High-Speed Wobbler Engine veer-sanghvi.github.io/wobbler

- Sand-cast, machined, and assembled a wobbler engine to a GD&T-toleranced drawing set; wrote the per-part manufacturing reports and reached stable operation at 2,340 RPM.

X-FLEX Terrain-Capable Compact Lift veer-sanghvi.github.io/xflex

- Built, with a 6-member senior capstone team, a remote-controlled terrain-adaptive scissor lift (linear-actuator lift, chain-and-sprocket drive, designed for 200 lb and 10 ft, 8 ft reached in testing); wrote part of the Arduino drive-control code and presented the lift at Wentworth's Senior Capstone Showcase.

ASME's IAM3D R.O.V.E.R Competition

- Helped a Wentworth ASME team iterate 3D-printed frame and structural parts for the IAM3D R.O.V.E.R rover; team placed 5th.

TECHNICAL SKILLS

• **Software:** SolidWorks, Fusion 360, Autodesk Inventor, AutoCAD, Autodesk Revit, Microsoft Excel, Microsoft Office

• **Programming:** Python, MATLAB, Arduino, Programmable Logic Controllers (PLC), SQL

• **Manufacturing:** 3D Printing, CNC Machines, Instron Testing, Sheet Metal Cutting, Lathes, Mills, Welding, Injection Molding, Sand Casting, Tolerance Analysis, GD&T, Quality Assurance, Technical Drawing, Lean Manufacturing

• **Analytics:** FEA, Data Visualization, IS/UL/FM Standards, Fire Protection Engineering