Spencer Levine

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Education

Tufts University School of Engineering Expected Graduation: May, 2028
Bachelor of Science in Mechanical Engineering
GPA: 3.67 / 4, Dean's List
Relevant Coursework: Computer-Aided Design, Materials & Manufacturing I, Mechanics I & II, Engineering Design I, Thermal Fluid Systems I, Ethics of Product Design, Energy Storage Systems

John Jay High School:
Achievements: Co-led a 15-student robotics team, made it to FTC NY State Championship and World Championship; Excellence Robotics Award; Excellence in Computer Science; Clarkson University Leadership Award; Honor Roll

Skills and Interests

CAD: Fusion, Solidworks, Onshape, AutoCAD, 3ds Max, Revit
Computer: Java, Python, JavaScript
Interests: Can Backflip, Working out, Skiing, Golf, Guitar, Space/The Universe

Relevant Work

UTX Inc. Holmes, New York
Intern May 2026 - Present
- Design products to streamline the inspection and production of transducers to increase efficiency by 15%
- Convert 2D drawings from pen and paper and AutoCAD into 3D models using Fusion
- Operate sand blasters, lathes, mills, and other machinery to manufacture high-tolerance transducers

Nemitz Robotics Group Medford, Massachusetts
Intern April 2026 - Present
- Designing a gripper (see projects) to autonomously build crab robots that will disable mines in former war zones

John Jay Robotics Cross River, New York
FIRST Robotics Mentor Mar 2024 - Present
- Mentor four robotics teams of high school students competing in the FIRST Tech Challenge (FTC), including one that qualified for the FTC World Championship
- Engage 30+ non-engineering-background students in skills such as CAD, Java coding, and basic robot design

Elaine Short Human Robot Interaction Lab Medford, Massachusetts
Research Assistant Jan 2026 - April 2026
- Designed a gripper (see projects) to be a 25 times less expensive alternative to the Robotiq adaptive gripper
- Assisted PhD students with various projects, like construction of robotic environments and model robotic arms

Giuliante Machine Tool Inc Peekskill, New York
Intern May 2025 - Aug 2025
- Designed and modeled 20+ parts in SolidWorks to be later machined and sold to 10+ clients
- Operated various machines, including CNCs, shapers, and bandsaws, to make gears and shafts

Prominent Projects

Robotic Gripper for 6-axis robotic arm Jan 2026 - Present
- Create a 3D-printed adaptive gripper to be a 25 times cheaper version of the Robotiq adaptive gripper
- Utilize force sensors to allow the gripper to control its grip strength and detect objects

Stock Predictor Jan 2026
- Coded a machine learning algorithm using an Extra Trees regressor ensemble model
- Program predicts which S&P 500 stocks would perform the best in a given month

Robotic Arm Jul 2025 - Aug 2025
- Created a robotic arm to explore different linkages, such as 4-bars and chain-driven components
- Built a full CAD assembly of the robot, then 3D printed and built

Swerve Drive Robot Feb 2025 - Apr 2025
- Built a fully 3D-printed swerve-drive robot with custom gear mechanisms
- Fabricated a full CAD assembly, coded the robot in Arduino and Python, integrating game controller teleoperation