

Nitin Bhat

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Education

University of Maryland, Baltimore County	May 2027 (Expected)
B.S. Mechanical Engineering	GPA: 3.25

Skills

CAD: SolidWorks (CSWA Certification), SketchUp

Software: MATLAB, LTSpice

Workshop: 3D Printing, Power Tools, Carpentry Proficiency

Electronics: Arduino, Breadboard, Digital Multimeter, Oscilloscope, Waveform Generator

Engineering Projects

...Additional projects & details available on my website

Custom Climbing Wall	Oct. 2024 – Dec. 2024
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Lead Designer & Builder

- Contracted to design and construct a 16ft, 45° overhung lumber-framed climbing wall integrated into an existing warehouse structure without freestanding support
- Utilized SketchUp CAD to draft preliminary design and performed static, dynamic, and anchoring load calculations to ensure safety under weight of multiple climbers
- Used reciprocating and skill saws, drill press, laser level, planer, and other tools alongside carpentry techniques (joinery, framing, etc.) during construction

Garden Hose Nozzle Attachment	Aug. 2025
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Personal Project

- Used Solidworks to design a plant-watering hose nozzle attachment with flow restriction
- Applied Bernoulli and continuity equations to minimize exit velocity via flow restriction chamber
- Built prototype using 3D printing for all parts with PETG filament and plastite screws to join

Work Experience

Front of House Chick-Fil-A Cockeysville, MD	Dec 2019- Dec. 2021
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Dentist's Assistant Dr. Nick Garcia DDS Baltimore, MD	May 2023 – Sept. 2023
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Youth Teams Coach Movement Gyms Baltimore, MD	May 2025 - Present
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