

Namit Goyal

goyalnamit2005@gmail.com | linkedin.com/in/goyalnamit | Seattle, WA

EDUCATION

B.S. in Mechanical Engineering | University of Washington, Seattle

Expected June 2028 | GPA 3.6

ENGINEERING EXPERIENCE

Washington Superbike

Technical Director | June 2025 - June 2026

- Coordinated technical planning and integration across the team's engineering subteams.
- Founded the team's first Safety Team and led weekly risk reviews with subteam representatives.
- Authored a Track Safety SOP and introduced an Excel milestone timeline after limited adoption of a Notion task system.

Washington Superbike

Powertrain Member | September 2024 - June 2025

- Owned the mechanical design of an 80-cell spot-welded battery module in SolidWorks, including structural plates, busbars, standoffs, and fastening strategy.
- Used CAM, CNC routing, and lathe work to manufacture parts; built a quarter-scale prototype to check assembly geometry, welding access, and electrical continuity.

Bear Metal Robotics, FRC Team 2046

Design Sub-team Lead | June 2023 - June 2024

- Directed CAD and prototyping work for a five-member design team and created a designer training program for new members.
- Owned the 2024 deployable collector and gearbox system, including geometry, drive sizing, packaging, integration, and competition iteration.
- Used alpha and beta prototypes to test roller placement and stow packaging; competition use identified a need for impact compliance.

Bear Metal Robotics, FRC Team 2046

Mechanical Designer | September 2021 - June 2023

- Designed shoulder and elbow gearbox packaging, the arm superstructure, and the shoulder pivot interface for the 2023 scoring arm.
- Designed and prototyped a three-roller collector for cones and cubes, revising roller placement after physical tests.
- Developed pneumatic cylinder mounting geometry, support plates, and a clamp interface for the 2022 climber.

SKILLS

CAD: Autodesk Inventor and SolidWorks

Mechanical design: gear ratios, torque calculations, power transmission, design for manufacturing, and technical drawings

Fabrication: CAM, CNC routing, lathe, manual milling, waterjet, laser cutting, and 3D printing

Programming: Java, Python, HTML, CSS, and JavaScript; familiar with React and Webflow