

# Divjyot Singh

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## EDUCATION

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### KENNESAW STATE UNIVERSITY

Expected Graduation August 2028

#### Sophomore B.S. Mechanical Engineering

- 4.0 GPA | Relevant Coursework: Calculus III, Programming and Problem Solving I, Probability and Data Analysis

## EXPERIENCE

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### Kennesaw Motorsports FSAE

*Aerodynamics/Vehicle Dynamics Engineer*

May 2026 – Present

- Designed side-tunnel and side skirt geometries using STAR-CCM+ and SolidWorks to meet aerodynamic and manufacturing requirements which resulted in ~30lb increase in downforce at 15 m/s
- Developed MATLAB scripts to calculate suspension force loads and process Foxglove telemetry data, cutting vehicle-behavior analysis time by 80%, giving the team faster setup decisions during frame design
- Executed vehicle maintenance and technical inspections across 11 test/competition events, achieving zero mechanical DNFs and 15-minute average turnaround between sessions
- Tuned damper stiffness, toe, camber, and ride height across setup iterations, improving lap-time consistency by 14% and reducing setup time by 30 minutes

### Home Depot

*Merchandising Execution Associate*

May 2026 – August 2026

- Collaborated with a 10-person team to reset product bays at a >75% pack-down rate, earning 5-star vendor ratings on 3 seasonal resets
- Restocked and flat-stacked 1000+ lumber boards per shift while maintaining safety and space-utilization standards across the lumber department
- Identified and corrected 150+ planogram/out-of-stock discrepancies per week, keeping shelf displays ready for vendor walkthroughs

### Kennesaw State University Aero Lab

*Student Researcher*

May 2025 – October 2025

- Designed and fabricated 3 UAV payload sub-systems (delivery, agricultural spray, heavy payload) for the Aurelia X8/X6 MAX platforms, supporting 4 successful flight demonstrations
- Documented payload designs and presented live demonstrations at the KSU Pumpkin Launch

## SKILLS

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**3D Modeling & CAD:** Siemens NX, SolidWorks, Fusion 360, AutoCAD, SolidWorks PDM, SolidWorks Simulation

**Programming & Development:** Python, R Studio, MATLAB, SLURM, C++, Foxglove

**Computational Fluid Dynamics (CFD):** Siemens Star-CCM+

**Software Proficiency:** Microsoft Excel, Microsoft Word, Microsoft PowerPoint, Microsoft Office Suite

**Manufacturing:** Machining, 3D Printing, Soldering