



# Jackson Merrick

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MSME (Dec. '25) | Mechatronics and Hardware Design | End-to-end ownership: requirements → CAD → prototyping → DFM/drawings → integration/testing. Self-starter with a bias for action. I unite technical execution and accountable collaboration to help my team deliver reliable solutions on schedule.

## EDUCATION:

|   |                   |
|---|-------------------|
| <b>Georgia Institute of Technology, Atlanta, GA</b>                   | Aug 2024-Dec 2025 |
| <b>George W. Woodruff School of Mechanical Engineering</b>            |                   |
| <i>Master of Science in Mechanical Engineering</i>                    | GPA: 3.57         |
| • Co-Leader, Cru Graduate Student Ministry                            |                   |
| <br><b>Southern Methodist University, Dallas, TX</b>                  | Aug 2020-May 2024 |
| <b>Bobby B. Lyle School of Engineering</b>                            |                   |
| <i>Bachelor of Science in Mechanical Engineering, Magna Cum Laude</i> | GPA: 3.91         |
| • Lyle Discovery Scholar  |                   |
| • SMU Distinguished Scholar   |                   |
| • Vice President, Tau Beta Pi Engineering Honor Society               |                   |

## ENGINEERING PROJECTS:

|   |                   |
|---|-------------------|
| <b>Robotic Inspection Apparatus — Lockheed Martin (via SMU)</b>   |                   |
| <b>Recipient of The Sally Blum Memorial Prize in Mechanical Engineering</b>   |                   |
| <i>Integration Lead &amp; Designer</i>  | Jan 2024-May 2024 |
| • Owned end-to-end delivery of a mechatronic testing apparatus for F-35 airframe panels: requirements breakdown, architecture, CAD, fabrication, integration, testing. Reduced setup time by 85%. |                   |
| • Designed and fabricated proprietary linear actuator and 3-DOF robotic arm. Integrated electromechanics.   |                   |
| • Drove procurement of 1,500+ components on a \$20k budget.   |                   |
| • 50% under budget: reduced material usage and redesigned for simpler components with no performance loss.  |                   |
| • Delivered on-time to Lockheed: hardware, CAD, manufacturing drawings, assembly drawings/instructions.   |                   |

## EXPERIENCE:

|   |                    |
|---|--------------------|
| <b>Torc Robotics</b>  |                    |
| <i>Prototype Hardware Intern, Blacksburg, VA</i>  | June 2023-Aug 2023 |
| • Owned requirements → design for dozens of sensor mounts on Level IV autonomous semi-trucks. Pushed concepts through CAD, standards-compliant drawings, fabrication, and on-vehicle integration. |                    |
| • Prototyped in SolidWorks for CNC machining, 3D printing, and sheet metal; collaborated directly with fabrication to iterate for fit/form/assembly.  |                    |
| • Owned overall design of forward sensor assembly now deployed on every current-generation Torc truck.  |                    |
| • Coordinated purchasing and directed installation of \$50k+ of sensors.  |                    |

## **Kaleo Summer Residency (StuMo) / Grand Cypress Golf**

|  |                   |
|--|-------------------|
| <i>Resident &amp; Greenskeeper, Orlando, FL</i>  | May 2024-Jul 2024 |
| • Completed faith-based leadership residency with daily training on discipleship and small-group leadership.   |                   |
| • Received structured one-to-one mentoring and led a Bible study as part of program deliverables.  |                   |
| • Balanced program requirements with full-time landscaping role at a championship-level golf course; responsibilities included raking bunkers, mowing greens, laying sod, and installing drainage. |                   |

## CORE COMPETENCIES:

Mechanical Design | Rapid Prototyping | Design Optimization | DFM | SolidWorks (Flow Simulation, FEA) | MATLAB/Simulink  
C | Python | Java | Controller Design