

# HENRY GLOVER

6209 Kentland, Ave. Woodland Hills, CA

| (818) 854-0862 | henry.glover02@gmail.com | www.linkedin.com/in/henry-glover-007287252

Portfolio: <https://hgintegrated.com>

## EDUCATION

### University of Southern California (USC)

*Expected Dec 2026*

#### Master of Science, Aerospace Engineering

- Viterbi Scholar - Dean's List

### University of Southern California (USC)

*Dec 2025*

#### Bachelor of Science, Mechanical Engineering

- **Relevant Coursework:** Measurement and Instrumentation Laboratory, Mechanics of Materials, Thermodynamics, Heat Transfer, Dynamics of Fluids, Dynamic Systems, Aerospace Structures, Materials Science, Statics, Linear Controls, Computer-Aided Engineering, Engineering Design, Senior Projects Lab, Composite Materials, Probability and Statistics

## TECHNICAL SKILLS

- Abaqus: Advanced
- Siemens NX: Advanced
- Microsoft Suite: Advanced
- MATLAB: Intermediate
- NASGRO: Intermediate
- ANSYS: Intermediate
- Simulink: Intermediate
- Arduino Microcontroller / C++: Intermediate
- LABVIEW: Beginner
- SolidWorks: Beginner

## WORK EXPERIENCE

### Distribution Manager, Operations

*January 2023-Present*

Vinyl Vista, Thousand Oaks, CA

- Lead outbound logistics operations and manage shipment prioritization, achieving 95% on-time delivery
- Coordinate cross-functional sales and operations teams to enhance data accuracy and fulfillment efficiency
- Automate billing and inventory workflows, reducing billing errors by 80% and improving cash-to-cash cycle time
- Negotiate with suppliers to improve inventory turnover and increase operational throughput

### Logistics Associate, Operations

*April 2021-August 2021*

United Imaging, Woodland Hills, CA

- Managed inventory and processed 2,000+ shipments per month, maintaining 99% on-time fulfillment
- Collaborated with a six-person team to streamline order processing, reducing fulfillment errors by 10%

## ACADEMIC PROJECTS

### Formula SAE Electric, Ergonomics Team, Los Angeles, CA

*February 2024-Present*

- Designed and analyzed pedal box, steering wheel, and driver interface assemblies to optimize ergonomics and driver control
- Integrated braking system components including rotors, calipers, brake lines, pads, and anti-lock braking system (ABS) hardware
- Ensured compliance with Formula SAE regulations while improving system performance and driver safety

### Formula SAE Electric, Vehicle Dynamics Team, Los Angeles, CA

*February 2024-Present*

- Performed suspension system design and vehicle dynamics optimization at the system level
- Calculated shock absorber requirements based on vehicle mass, load transfer, and dynamic response
- Designed and manufactured control arms, bushings, and suspension linkages

### MACH-0, Team Member, Los Angeles, CA

*August 2024-Dec 2024*

- Collaborated on a multidisciplinary team to design a wearable mechanical hip-protection system
- Designed and tested a spring-based deployment mechanism that reduced impact forces by 30% compared to existing market solutions
- Presented design concept and experimental results to senior faculty and 40+ peers; delivered poster presentation to 100+ department members
- Developed and demonstrated a functional prototype to support long-term project continuation

### Student, Pitot Tube Performance Comparison, Los Angeles, CA

*February 2023-March 2023*

- Characterized pitot tube velocity measurements within a turbulent free jet to evaluate probe accuracy and dynamic pressure response
- Analyzed measurement uncertainty and compared experimental results to theoretical velocity profiles across varying flow conditions