

# Gary Brady Wedbush

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*Mechanical Engineer with 3 years of industry experience developing, validating, and launching EV battery and vehicle assembly hardware at Tesla. Seeking an engineering role at a company focused on innovative hardware, to leverage my expertise in large-scale production, system design and integration, and problem-solving.*

## EDUCATION

**University of California, Berkeley**  
*M.Eng., Mechanical and Robotics Engineering*

**Berkeley, CA**  
*Aug 2025 - May 2027*

**Princeton University**  
*B.S.E., Mechanical and Aerospace Engineering*

**Princeton, NJ**  
*Sep 2018 - May 2023*

- Minors: Applications of Computing | Robotics and Intelligent Systems

## EXPERIENCE

**Tesla**  
*Manufacturing Engineer II, General Assembly*

**Fremont, CA**  
*Dec 2024 - Present*

- Owned manufacturing engineering scope for Semi high-volume General Assembly mainlines and sublines, driving DFM, process development, and equipment readiness from early design through production launch, building an assembly line capable of producing 50,000+ semi trucks per year.
- Drove development of equipment-intensive automatic battery marriage and cab marriage processes for Tesla Semi, proving first-of-its-kind battery installation through prototype trials and improving high-volume robustness to increase throughput by 10x.
- Modeled automatic battery marriage process and improved equipment design through load-path analysis, dimensional variation analysis, cycle-time simulation, and equipment fatigue simulation.
- Designed and integrated pneumatic circuits, controls hardware, and mechanical structures into complete electromechanical manufacturing systems, selecting valves, sensors, and materials to support functional motion control, safety interlocks, fault detection, and high-volume reliability.
- Improved manufacturability of battery structures, chassis components, and body surfaces by implementing simplified temp-set strategies, poka-yoke features, and automation equipment interfaces for high-volume assembly, enabling \$100/unit cost reduction.

*Associate Manufacturing Engineer, Battery Manufacturing*

**Fremont, CA**  
*Sep 2023 - Nov 2024*

- Facilitated the launch of three new manufacturing lines, overseeing the production of over 20,000+ battery units, and utilized Confluence and JIRA for technical documentation and seamless line handover to sustaining teams.
- Drafted and rapidly implemented innovative production equipment and processes, such as a rotation assistance tool, optimizing assembly line efficiency by 10% and reducing operator strain.
- Coordinated with Design Engineering teams to proactively anticipate product changes that affected manufacturability, such as form and datum location changes.
- Refined hardware designs of electromechanical test equipment by troubleshooting functional test failures through data-driven methods, and increased accuracy to 99.9%.
- Played a pivotal role in the development and execution of a pilot production line for a new battery product, conducting Design of Experiments for efficient DFM validation.

## SKILLS

- **Mechanical:** CAD (3DEXperience, CATIA V5/V6, SOLIDWORKS PLM, CREO Parametric, AutoCAD), Subtractive / Additive Mfg, Sheet Metal Design and Fabrication, Battery Design and Testing, DFX, GD&T, Rapid Prototyping
- **Manufacturing:** Lean, OEE Improvement, Process Capability Analysis, PLC Automated Systems, Technical Documentation (GR&R, Cpk, BOMs, FMEAs, Equipment Specifications), Fixture and Tooling Design