

# MACKENZIE CASWELL

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## WORK EXPERIENCE

### **Procter & Gamble (P&G)**

*Engineering Project Manager*

**Cincinnati, OH**

*March 2025 – Present*

- Lead 8–12 concurrent engineering and cost-reduction initiatives for high-volume Febreze Plug products, partnering with R&D, Procurement, Supply, Logistics, and Contract Manufacturers to translate design changes into validated, scalable production with zero launch disruptions
- Drive end-to-end cost optimization through material qualification, vendor negotiation, and packaging redesign, delivering \$1.9M in annual savings so far while sustaining manufacturability and reliability, directly supporting OpEx targets
- Own SKU and BOM lifecycle management for thousands of active variants using Enovia PLM and SAP, ensuring accurate change control, clean supply planning handoffs, and uninterrupted manufacturing across 15–20 product platforms
- Resolve supply, manufacturability, and supplier capacity risks by coordinating cross-functionally with upstream partners and contract manufacturers, preventing production delays and protecting line uptime and market availability
- Lead factory trials and line validation activities to confirm equipment capability and process readiness for new packaging components, enabling seamless commercialization and strengthening ongoing production reliability and throughput

### **Tesla Motors Inc.**

*Technical Program Manager (TPM) Intern*

**Lathrop, CA**

*May 2024 – August 2024*

- Revitalized the OKR program by designing an optimized V2 framework to address previous adoption gaps; created the presentation for the Exec Strategy Summit to drive strategic alignment across the entire Tesla Energy Manufacturing organization
- Spearheaded the deployment of a bespoke OKR tracking system, delivering a single source of truth that established visibility and data accuracy for executive reporting
- Engineered a downtime calendar management system using Confluence and Jira, utilizing extract scripts to automate data extraction for capacity modeling and production planning

### **Rivian Automotive Inc.**

*Battery Cell Factory Engineering Co-op*

**Palo Alto, CA**

*January 2023 – August 2023*

- Spearheaded the development of a state-of-the-art battery cell pilot facility with a \$250M+ budget, leveraging exceptional project management skills to drive project timelines, resource allocation, and stakeholder engagement, culminating in a successful on-time facility opening that met all project milestones and objectives, and resulting in a 25% increase in capacity analysis efficiency and a 30% reduction in buffer sizing errors
- Collaborated with cross-functional teams, including manufacturing engineers and facility teams, to manage a complex equipment matrix of over 300 tools, ensuring optimal equipment utilization, maintenance, and troubleshooting
- Managed relationships with third-party contractors to oversee and coordinate utility installation, ensuring timely and within-budget delivery of critical infrastructure projects
- Designed and implemented AutoCAD layouts for multiple material repair facilities in Rivian's Illinois factory, resulting in a 20% reduction in material scrap cost and a 15% increase in repair efficiency
- Developed an AutoCAD layout and system for raw material consumption and storage, creating cost models that identified economically viable solutions and resulted in a 10% reduction in material costs

## EDUCATION

### **Texas A&M University**

*Bachelor of Engineering in Industrial & Systems Engineering*

*Minor in Engineering Project Management*

**College Station, TX**

*Class of 2024*

## SKILLS & TOOLS

*Engineering & Project Management:* Enovia PLM, SAP, Jira, Confluence, AutoCAD, SolidWorks, Simio, Tableau, SQL, Python, Microsoft 365

*Core Competencies:* Supply Chain Optimization, BOM & Lifecycle Management, Cost Modeling, Process Improvement, Manufacturing Validation, Cross-Functional Leadership, Risk Management