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OBJECTIVE

Self-motivated individual with effective communication skills and high productivity. Seeking a full-time TPM position to apply management and technical experience in a professional working environment.

EXPERIENCE

- Lucid Motors | Sr. Technical Project Analyst | Newark, CA* *Aug 2024 – Present*
- ♦ Implemented centralized DVP system and international test schedules prior to the launching of 2026 Lucid Air. This approach ensured efficient utilization of \$3M+ of prototype vehicles and subsystems.
 - ♦ Managed testing for customer-facing software releases, organizing over 40 leaders and individual contributors. Acted as point-of-contact for all involved – leadership, engineers, and test drivers.
 - ♦ Coordinated tests, shipments, and deliveries prior to external marketing events and international large-batch sales. Ensured all sales are properly aligned with needs of homologation and functional safety.
 - ♦ Defined over \$10M in budgets for use across upcoming vehicle model year and special programs.
- Sentinel Detector | Co-Founder | Livermore, CA* *Aug 2024 – Nov 2025*
- ♦ Designed, tested, and iterated enclosure, improving assembly ergonomics, thermal efficiency, and cost.
 - ♦ Created AI algorithm to detect mechanical and thermal failure in wastewater facilities and petroleum manufacturing environments using non-stochastic methods. Methods created to align with UL & NFPA.
 - ♦ Communicated with suppliers to acquire parts needed for safety-critical and explosion-proof installation.
- Purdue University | Graduate Research Assistant | West Lafayette, IN* *Jan 2023 – Aug 2024*
- ♦ Awarded “Best Paper” for work in AI/ML approaches in ASME’s largest conference, ASME-IDETC.
 - ♦ Published process for sequential design of experiments to optimize protocol for DoD testing initiatives.
 - ♦ Deployed CV systems in autonomous vehicles across multi-fidelity simulations for comparative analysis.
- Casafy.ai | Co-Founder | West Lafayette, IN* *Aug 2023 – Aug 2024*
- ♦ Co-founded a company focused on using AI to generate novel leads for real estate industry.
 - ♦ Led pitch-deck formation and delivery, leading to successful pre-seed funding.
 - ♦ Trained, tested, and evaluated CV systems in Python with OpenCV to best fit consumer needs. Separate CNNs were constructed with PyTorch and JAX to further data analysis and sales opportunity.

EDUCATION

Purdue University | West Lafayette, IN *GPA: 3.83*
Master of Science in Mechanical Engineering, Focus on Systems Engineering & AI

ACTIVITIES

- Early Career Launch Program | Program Manager | Remote* *Apr 2024 – Aug 2025*
- ♦ Implemented continuous self-improvement program for interns and new hires across 20 different companies. Leading cohort as part of program through holding 1:1s, performance reviews, and more.
 - ♦ Supported company from concept to individual sales to corporate-level purchases.
 - ♦ Created software tool to intake applicant information and present needs based on given data.
- Emerging Technology Action Group | VP Outreach | West Lafayette, IN* *Jan 2024 – Aug 2024*
- ♦ Coordinated an event between Chicago Fire MLS team and FIRST Robotics to promote STEM extracurriculars. The expected attendance of event from contribution is over 5,000 people.
 - ♦ Drafted precursor for bill that would increase funding for STEM extracurriculars and CTSOs in Indiana.
- Purdue Formula SAE/SAE Electric | General Member | West Lafayette, IN* *Aug 2020 – Jan 2023*
- ♦ Calculated required forces for anti-roll bar system and created required design in NX software.
 - ♦ Utilized FEA software to design a wheel that would take calculated forces within a 1.4 margin of safety.

SKILLS

Technical: Machine Learning | Computer Vision | Artificial Intelligence | Bayesian Data Analysis | Python | SolidWorks | Fusion 360 | PTC Creo | CATIA | 3DX | FMEA | DVP | Microsoft Office | Jama
Non-Technical: TEDx Speaker | Jira | Project Management | Systems Thinking | Policymaker