

# KEVIN HARRY

## APPLICATIONS SYSTEMS ENGINEER

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Engineer who owns complex hardware problems end-to-end and delivers buildable, field-ready automation solutions.

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### PROFILE

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Applications Systems Engineer with hands-on experience designing and integrating custom CIJ parts-marking equipment in low-volume, highly customized environments. Focused on translating customer use cases into buildable mechanical and motion system designs, improving manufacturability, cost, and assembly efficiency. Experienced in cross-disciplinary integration, practical troubleshooting, and iterative improvement of both hardware and internal engineering processes.

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### PROFESSIONAL EXPERIENCE

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#### Applications Systems Engineer, JETEC Corporation

Aug 2024 to Present

Tustin

- Owned mechanical and system-level design for multiple custom CIJ marking platforms, including ground-up redesigns of legacy systems to enable cost reduction, manufacturability, and future production scalability.
- Designed new marking workstations and gantry-based systems by defining motion envelopes, structural layouts, and component integration strategies based on customer use cases, operator workflow, and physical constraints.
- Led systems redesign efforts integrating sheet metal, extrusions, machined components, and additive manufacturing to reduce part count, improve assembly efficiency, and support configurable options such as rotary DPM, variable printhead orientation, and vision mounting.
- Developed a working understanding of closed-loop motion systems and applied it to motor selection, actuator sizing, and motion behavior tuning, including mitigation of backlash effects and improvement of acceleration/deceleration profiles through software configuration.
- Transitioned additive manufacturing from prototyping to functional use by designing PETG components with controlled fits and heat-set inserts, replacing select machined parts to reduce lead time and cost.
- Established foundational engineering infrastructure by implementing standardized drawing templates, configuration-driven part metadata, revision tracking, structured project folders, and portable assembly packages to improve reproducibility in a low-process environment.
- Acted as technical liaison between management, assembly, and customers; introduced task-tracking and communication standards to improve visibility, traceability, and execution across concurrent custom projects.

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### LINKS

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[Engineering Portfolio](#)

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### EDUCATION

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#### University of California Irvine

Sept 2020 to Mar 2025

Bachelor of Science in Mechanical Engineering

Completed a Bachelor's program in Mechanical Engineering with additional coursework specializations in Aerospace Engineering and Energy Systems & Environmental Engineering, emphasizing advanced study in aircraft structures, propulsion, renewable energy, and sustainable design.

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### PROJECTS

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#### UCI Solar Airplane - Fuselage Engineer

Jun 2023 to Jun 2025

- Developed an autonomous solar panel-powered aircraft for humanitarian use
- Designed, tested and implemented the landing gear system and wing box
- Collaborated with other students and led sub-team meetings to optimize designs

#### UCI MAE 189 - Thrust Testing Rail - Project Lead

Sept 2023 to Dec 2023

- Engineered a low-friction thrust testing system for use by UCI Solar Airplane
- Utilized SolidWorks to design and test system components, which were manufactured and assembled

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### TECHNICAL PROFICIENCIES

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#### Technical Skills:

SolidWorks CAD (CSWA Certified), 3D Printing & Rapid Prototyping

#### Systems and Project Engineering:

System Integration & Troubleshooting, Project Coordination, Root Cause Analysis

#### Professional & Analytical Skills:

Interdisciplinary Communication, Process Optimization, Cross-Functional Collaboration, Problem Solving