KEEGAN USRY

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EDUCATION

UNIVERSITY OF CENTRAL FLORIDA, Orlando, FL — Graduation: July 2027
BS in Mechanical Engineering, Burnett Honors College
DEAN'S LIST, Fall 2023, Fall 2025
NCEES FE MECHANICAL EXAM — March 2026
RELEVANT COURSEWORK: Mechanical Systems, Digital Manufacturing, Engineering Design, Kinematics of Mechanisms, Design and Analysis of Machine Components, System Dynamics and Controls, Computer Aided Engineering (CAE), Programming with C, Heat Transfer, Thermodynamics

PROFESSIONAL EXPERIENCE

PHILIPS MRI PATIENT MONITORING, Orlando, FL — January 2026 – July 2026
R&D Systems Engineer Co-op, 40 hours/week

- Owned 1,500+ MRI system requirements in IBM DOORS, supporting requirements management and development of biocompatible patient monitoring systems for critically ill and infant patients.
- Led 10 cross-functional FMEA meetings to assess system design and manufacturing risks, authoring and reviewing 200+ requirements through technical research, collaborative discussion.
- Modeled regulatory SpO2 subsystem architecture in Cameo and Miro, documenting user-to-part and part-to-part interfaces to enable mode definition and identification throughout development.

DANIELS MANUFACTURING CORP, Orlando, FL — August 2025 – November 2025
Manufacturing Engineering Intern (August – November), 25 – 30 hours/week

- Analyzed manufacturing processes for 20+ machined parts, identifying a 15–20% production bottleneck that led to lean manufacturing improvements and increased production.
- Developed 40+ Autodesk Inventor designs tailored for manufacturability, collaborating closely with machinists to assess tolerance practicality, tooling availability, and fixture compatibility.
- Gained hands-on experience with end-to-end manufacturing workflows, including milling, CNC machining, G-code, CAM, and precision tooling.

DANIELS MANUFACTURING CORP, Orlando, FL — May 2025 – August 2025
Design Engineering Intern (May – August), 25 – 30 hours/week

- Managed 45+ formal engineering change requests through detailed documentation and issue resolution, driving procedural changes and improving overall process efficiency by 40%.
- Developed 30+ aerospace-grade 2D/3D CAD models compliant with MIL-SPEC standards, supporting mission-critical engineering programs led by NASA and federal defense contractors.

SANDHURST CONSTRUCTION LLC, Orlando, FL — May 2023 – Present
Founder, Owner/Managing Member

- Delivered construction and repair services to 20+ residential and commercial clients, independently managing project requirements, materials, and budgets from $500–$10,000.

PROJECT EXPERIENCE

AI TRACEABILITY TOOL, Philips — July 2026

- Co-developed an AI tool capable of tracing 14,000+ requirement linkages across system levels to support FDA design-control traceability requirements, with planned expansion into DFMEA.

STEEL PART DESIGN AND TESTING, Daniels Manufacturing Corporation — August 2025

- Developed, verified, and validated a custom steel crimping component using Autodesk Fusion 360, GD&T compliant with ASME Y14.5, machining, and testing to meet customer requirements.

3-D PRINTED DEPLOYABLE MECHANISM, UCF — November 2025

- Used kinematics DOF calculations, Autodesk Inventor, and 3-D printing to create a prototype mechanism meant for zero-gravity environments, earning the highest grade in a class of 200+.

SKILLS

- MBSE, 2D & 3D CAD/CAM Design, Cameo, Inventor, AutoCAD, Fusion, SolidWorks, ANSYS, DFMEA/PFMEA, C/C++, DFM/DFT/DFA, GD&T, Additive Manufacturing