

Kyle Richardson

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SUMMARY

Recent graduate from the University of Massachusetts Lowell with a Bachelor of Science in Mechanical Engineering. Actively seeking a full-time position to further develop my technical skills and gain practical experience in the field. Passionate about innovation and problem-solving, I've completed various projects that demonstrate my skills, all showcased in my portfolio linked above for those interested in learning more about me and my work.

EDUCATION

University of Massachusetts Lowell

September 2020- May 2024

Francis College of Engineering; GPA:3.5

- Active member of the National Honors Society

SKILLS

Software: SOLIDWORKS core, 3DEXPERIENCE Platform, SOLIDWORKS Cloud Apps, MATLAB Programming, Cura Slicer, Bambu Studio, DaVinci Resolve, Adobe Photoshop, Inkscape, HueForge, Microsoft Office

Engineering: FDM 3D Printing, Rapid Prototyping, Product Development, Parametric Design, 2D and 3D Manufacturing Documentation/Drawings, Material Testing, GD&T, Engineering Analysis and Optimization, Bill of Materials Management, Product Data/Lifecycle Management, Soldering, FPV Drone Construction

WORK EXPERIENCE

SharkNinja | Needham Ma

June – December 2024

Ninja Heated R&D Mechanical Engineering Co-Op

- Guided testing and analysis for product systems, designing and executing test plans to resolve performance issues
- Gained hands-on experience in electrical systems, control systems, and sheet metal fabrication while developing test rigs
- Developed rapid prototypes and tested designs, ensuring functionality and scalability for mass production
- Analyzed technical data, providing actionable insights to upper management for product development decisions
- Collaborated with teams in the US, UK, and China to ensure alignment on testing procedures, deadlines, and project goals.
- Led design, testing, and analysis of a convection system, improving performance by 117% through iterative development

Dassault Systèmes | Waltham Ma

June – August 2023

SOLIDWORKS Product Management Intern

- Developed and presented a comprehensive software product proposal to the executive team
- Designed, modeled, and constructed a 3D-printable FPV drone from the ground up using xDesign
- Utilized the drone model as a valuable dataset for upcoming product demos, marketing initiatives, and software testing
- Enhanced software quality by identifying, documenting, and reporting numerous bugs, driving platform improvements
- Collaborated with the development team to address and rectify platform issues, ensuring a seamless user experience
- Navigated the multifaceted challenges of the drone project, from inception to flight within a tight 2-month timeframe
- Authored an in-depth blog post detailing the drone project's journey and the 3DEXPERIENCE platform's capabilities: <https://blogs.solidworks.com/solidworksblog/2023/11/from-crash-and-burn-to-soaring-creating-a-drone-with-3d-creator.html>

Dassault Systèmes | Waltham Ma

June – August 2022

SOLIDWORKS Product Management Intern

- Constructed a detailed technical product proposal for executive team
- Created numerous comprehensive mechanical designs for marketing and demo purposes
- Developed high quality CAD models to evaluate the performance of cloud apps within the 3DEXPERIENCE Platform
- Conducted data compatibility tests across various applications on the 3DEXPERIENCE Platform
- Coordinated with R&D Team to identify product issues and possible enhancements
- Generated images and videos depicting new product functionalities

CERTIFICATIONS

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| • Certified SOLIDWORKS Associate in Mechanical Design (CSWA) | June 2022 |
| • Certified SOLIDWORKS Professional in Mechanical Design (CSWP) | August 2022 |
| • Certified SOLIDWORKS Associate in Additive Manufacturing | August 2022 |
| • Certified 3DEXPERIENCE 3D Creator – Associate | August 2022 |
| • Certified 3DEXPERIENCE Collaborative Business Innovator – Associate | August 2022 |
| • Certified 3DEXPERIENCE Collaborative Industry Innovator – Associate | August 2022 |

ACTIVITIES & INTERESTS

Umass Lowell Intramurals (basketball, softball, volleyball), hiking, skiing, fishing, skateboarding, building and flying FPV drones