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[Joseph W Portfolio \(https://josephwah.github.io/\)](https://josephwah.github.io/)  
Bowling Green, KY

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## SUMMARY

Detail-oriented and innovative Mechanical Engineering student with hands-on experience in CAD modeling, mechanical design, and robotics. Demonstrated success in collaborative engineering projects involving gear systems, 3D printing, and motorized assemblies. Adept at using SolidWorks and troubleshooting mechanical systems. Passionate about designing reliable and efficient mechanical components and mentoring future engineers.

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## EDUCATION

**Western Kentucky University, Bowling Green KY, 2022-2025**

*Bachelor of Science in Mechanical Engineering with a minor in Systems Engineering*

**Florida College, Temple Terrace FL, 2020-2022**

*Associate of Arts in General Studies*

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## EXPERIENCE

**Crown Verity – Fiber Laser Operator**

*Bowling Green, KY | Oct 2025 – Present*

- Operated and maintained an Amada FLW 3000 ENSIS M5 welding robot, ensuring optimal production performance and minimal downtime.
- Managed a small team tasked with running the robot and doing quality control on all welded components.
- Troubleshoot and resolved various error codes and performed routine maintenance.
- Worked with other company members to ensure production stayed on track.
- Improved reliability and efficiency via formal startup, shutdown, and fixture changeover procedures and documentation.
- Collaborated with laser cutting and press brake groups to improve formation of parts and increase welding efficiency.

**VEX Robotics Competition – Team Member & Engineering Mentor**

*Indianapolis, IN | Aug 2014 – Apr 2020*

- Designed, built, and programmed competitive robots from the ground up to meet event-specific design challenges.
- Used CAD modeling tools to iterate on robot subsystems and drive mechanisms.
- Collaborated with team members to improve overall efficiency and modularity.
- Recognized as Division Finalist at the 2018 VEX World Championship.

- Mentored younger team participants in design principles, gear ratios, motor control, and autonomous logic.
- Continuously improved autonomous logic to maximize efficiency and points scored.

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## LICENCES AND CERTIFICATIONS

- **SolidWorks Certified Professional, Segment 1**  
<https://cv.virtualtester.com/qr/?b=SLDWRKS&i=C-5MFQWKJ9V6>
- **SolidWorks Certified Professional, Segment 2**  
<https://cv.virtualtester.com/qr/?b=SLDWRKS&i=C-WJMEZYVDQS>
- **SolidWorks Certified Professional, Segment 3**  
<https://cv.virtualtester.com/qr/?b=SLDWRKS&i=C-GZL5W3AX94>



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## TECHNICAL SKILLS

- **Software:** SolidWorks (including Toolbox), Inventor, ANSYS, QBlade
- **Fabrication:** 3D Printing (FDM and SLA), Prototyping
- **Programming:** G-code, C++, Web VPython, HTML, Allen Bradley PLC
- **Soft Skills:** Team Collaboration, Mentorship, Problem Solving, Attention to Detail
- **Simulation:** FEA, Fatigue Analysis, CFD, Yielding and Fatigue of Metals
- **Project Management:** Excel / Word, Gated Design Review, Status Presentations
- **Tools:** Manual Mill, Lathe, Band Saw, Basic Power Tools