

James Brynn

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EDUCATION

University of Michigan College of Engineering - Ann Arbor, MI

September 2019 - May 2023

Bachelor of Science in Mechanical Engineering, May 2023

- Cumulative GPA : 3.98/4.00
 - Minor in Computer Science
 - Honors and Awards: Dean's List, University Honors, Regents Scholarship, Albert Kahn Scholarship
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WORK EXPERIENCE

Wilson Student Team Project Center- Ann Arbor, MI

December 2020 - Present

Laboratory Technician

- Oversee machine shop by maintaining equipment, tracking machine usage, and implementing additional COVID-19 precautions in order to provide student project teams with a neat and well equipped workspace
- Respond quickly and effectively to hazards and injuries to ensure that students are safe at all times
- Advise incoming students on basic machining skills, machine shop safety, and manufacturing plan creation to help them successfully demonstrate competency and earn access to the workspace

Magna International DexSys - Lansing, MI

May 2021 - August 2021

Advanced Product Quality Planning Intern

- Supported three program launches by performing feasibility studies, trialing engineering changes, and reworking flawed parts, leading to smooth and on-schedule transitions from design to production
 - Collaborated with machinist to design weld strength pull test fixture and coordinated ordering of parts, allowing program manager to ensure that welds exceed OEM strength requirements
 - Repaired large scale 3D printer by creating upgrades to fix severe issues with bed frame and extruder, providing engineering department with critical prototyping and tool creation capabilities
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ACTIVITIES

Michigan Baja Racing - Ann Arbor, MI

January 2021 - Present

Joints and Axles Subsystem Lead - June 2021 to Present

- Responsible for successful design and manufacturing of front and rear CV axles in 4WD system
- Developing improvements for existing front CV axle design including modifying plunge mechanism to eliminate binding and sourcing new outboard CV joints to increase steering angle to 45 degrees

New Member - January 2021 to May 2021

- Performed machining tasks such as tube notching and body panel grinding to help construct off-road race car for competition, resulting in vehicle that took first place overall in a competition of over 100 schools

Tau Beta Pi Engineering Honor Society - Ann Arbor, MI

January 2021 - Present

Active Member

- Qualified for membership by maintaining GPA within top 1% of junior engineering class
 - Volunteered for community service events including food bank distribution, K-12 STEM outreach programs, and tutoring a freshman in introductory engineering physics course
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SKILLS

- C++, Python, SolidWorks, NX, ANSYS, Machining, Technical Communication, Microsoft Office Suite