

Michael Bransky

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Education:

Northern Arizona University Flagstaff, AZ

Bachelor of Science in Mechanical Engineering

Graduating May 2022

GPA: 3.6/4.0, Dean's List

Technical Experience:

Radial Expansion Tester, Poba Medical, Flagstaff, AZ

August 2021-Present

- Leading team of 3 students to collaborate with project engineers to create a machine that can test plastic extrusion's ability to form into medical grade balloons.
- Manufacturing multiple custom components of machine to ensure that ball screw fit well and was safe for use.
- Creating a fully dimensioned Solidworks file with 100+ parts to demonstrate design to engineers from Poba Medical.
- Creating HTML website to showcase work to future employers and practice coding skills.

Natural Channel Design, Engineering Intern, Flagstaff, AZ

May 2019- December 2020

- Worked with Senior Engineers to prevent residential flooding after major wildfire by designing channels to divert rainfall.
- Surveyed in remote locations to improve habitat of endangered species after wildfire damaged local watershed.
- Collected data from weirs to track water retention in Rio De Flag, developing self-management skills and helping the City of Flagstaff create a more sustainable water usage plan.
- Automated process used to estimate erosion by hand using Visual Basic, cutting a process that took 3-5 days down to 1 day.

Teaching Experience:

Northern Arizona University, Dynamics Supplemental Instruction Leader, Flagstaff, AZ August 2020-Present

- Worked closely with faculty partners to create supplemental content to help students reach a deeper level of understanding.
- Led 3 weekly sessions to ensure that students understood material and address areas where students were struggling.

Northern Arizona University, Teachers Assistant, Flagstaff, AZ

August 2021-Present

- Collaborated with faculty partner to ensure that material got out in an understandable and timely manner.
- Collaborated with students to ensure that their sophomore level design projects were robust and delivered in a timely matter.

Projects:

Home Climbing Wall, Personal

May 2020

- Designed a 12ft climbing wall in SolidWorks at beginning of COVID-19 Pandemic
- Created a BOM to accurately price out the wall to ensure the wall stayed under a set budget.
- Built wall using hand tools and plywood, ensuring that wall could handle the load of someone on it.

Skills:

Programming Languages: MATLAB, Visual Basic, Python, Arduino

Software: Solidworks, AutoCAD, Revit, Excel, MS Office, Adobe Premiere Pro, Arduino, Labview