Antonio Kraft

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EDUCATION

Brigham Young University- Ira A. Fulton College of Engineering Provo, UT

Bachelor of Science in Mechanical Engineering: Aerospace Emphasis – 3.2 Cumulative GPA *April 2026*

- Current member of BYU Rocketry: Led team project in design and build of L1 rocket using Open Rocket program
- BYU Formula Electric Capstone Project: Leading mechanical design and FEA validation of accumulator module attachment structures, optimizing electrical component layout for improved structural integrity, thermal efficiency, and assembly performance

EXPERIENCE

Boeing – NASA Michoud Assembly Facility New Orleans, LA/Remote

Production Engineering Intern *June 2024-April 2025*

- Supporting floor-wide project to convert 150+ drill sheet instructions from an older to updated version for technicians, resulting in reduced labor time and more efficient searchability
- Developed 3 detailed storyboard engineering plans for the Core Stage 2 of NASA SLS Rocket, utilizing 3D models in Creo, engineering drawings, and comprehensive part documentation resulting in greater part installation efficiency
- 70+ working hours with model and structure analysis in Creo CAD software
- Developed 10 installation plans by analyzing part documentation and engineering drawings for the Engine Section, while ensuring a 100% accuracy of details on plans made
- Resolved 5 Non-Conformity Reports (NCRs) by collaborating directly with liaison and manufacturing engineers to identify issues and implement effective solutions for Forward Skirt Rocket Section

ASRC Federal – U.S. Army Yuma Proving Grounds Yuma, AZ

Test Resource Management Center STEM Intern *June 2023-August 2023*

- Department of Defense Secret Clearance – Adjudicated 4/28/2023
- Led the mechanical design of remodeling a Kineto Tracking Mount (KTM) calibration sighting scope and manufacturing an optic lens configuration using 3D printers and CNC machines; responsible for designing, sourcing, manufacturing, testing, and implementation, saving $80,000/year in costs for the Optics Division
- Tested and analyzed stress loads on computer aided design (CAD) project designs utilizing SolidWorks Simulation and finite element analysis (FEA) for material and design validation
- Managed and assisted in data collection for tests such as telemetry, high-speed and IR camera recording, laser recognition, long-range tank and artillery gun firing, and cargo plane airdrops, resulting in 100% faster data collection efficiency
- Calibrated and balanced KTM's for on-range tests being conducted of high-speed projectiles utilizing infrared and high-speed cameras for faster setup times

BYU Physical Facilities Manufacturing Shop Provo, UT

CNC and Manual Machine Operator *April 2022-August 2022*

- Set up and operated CNC mill, manual mills, and manual lathes
- Responsible for reviewing prints, acquiring material, and final inspection using calipers and micrometers
- Proficient with blancher grinding machine, shear cutter, drill bit sharpener, and arbor press
- Operated forklift for organization of stock

SKILLS/ACHIEVEMENTS

- Recipient of the '2023 Best Intern Project & Presentation' award, including $500 bonus, surpassing 47 top selected interns nationwide
- Advanced skill level and 6+ years of experience with project modeling, GD&T, sheet metal design, and FEA analysis in SolidWorks and Workbench programs
- Intermediate MATLAB and Python skill level with data analysis/processing
- Advanced skill level with user certifications in Autodesk AutoCAD, Inventor and Revit
- Strong ability to work well in an integrated collaborative team environment
- Strong mechanical aptitude and problem-solving skills
- Accomplished the rank of Eagle Scout in The Boy Scouts of America Program in 2018
- Bilingual Brazilian Portuguese