Jacob Ockuly

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EDUCATION

The Ohio State University, Columbus, OH   Expected Graduation: April 2027
B.S. Mechanical Engineering   Cumulative GPA: 3.16

ENGINEERING INTERNSHIP EXPERIENCE

EMC Precision, Manufacturing Engineer Intern   May 2025 – August 2025
-   Programmed CNC machines and optimized toolpaths using **FeatureCAM**
-   Modified **G&M code** to improve machine efficiency and reduce cycle time by up to 20%
-   Designed and prepared **CAD** models for 3D printing to support prototyping and fixture creation, eliminating traditional fixture cost by up to 90%
-   Assisted in corrective actions to improve quality and address customer ejections

PROJECTS

Complex Prototype Part | EMC Precision for Nordson Corporation
Internship Project | Makino HMC, FeatureCAM, CMM, Profilometer, Comparator   Summer 2025
-   Collaborated with senior engineers to troubleshoot toolpaths and fixturing, successfully delivering 6 precision prototype parts to Nordson Corporation
-   Programmed CAM software and set up Makino HMC machine to manufacture complex part with nontraditional features, utilizing fourth axis capabilities
-   Achieved tightest tolerance of 0.0008" diameter by making precise machine adjustments
-   Utilized lab equipment including CMM machine, profilometer, and comparator to verify and ensure part met specifications

Stamping Tray for Operator Use | EMC Precision
Internship Project | DMG Mori VMC, SolidWorks, 3D Printing, Corrective Action   Summer 2025
-   Designed a custom tray with 3D-printed part holders to prevent operators from stamping parts on the wrong side
-   Engineered orientation-specific holders to ensure correct part placement, eliminating the possibility of human error
-   Developed the tray's hole pattern using FeatureCAM, optimizing it for precision and compatibility with existing tooling
-   Successfully eliminated stamping orientation defects during the remainder of the internship, with **zero bad parts produced** after implementation

TECHNICAL SKILLS

Skills: Reading and interpreting engineering prints and **GD&T**
Software: SolidWorks, FeatureCAM, MATLAB, Microsoft Office Suite
Machining: CNC Programming (G&M Code), Precision Machining
Lab Equipment: CMM Machine, Profilometer, Comparator
Engineering Courses: Intro To Design, Mechanics of Materials, Materials Science, Machine Elements, System Dynamics and Vibrations

INVOLVEMENT

American Society of Mechanical Engineering (ASME) member   August 2025 - Present
-   Enhance technical knowledge and professional development through corporate-sponsored events, technical workshops, and industry networking sessions
-   Engage in community outreach and collaborative events to promote engineering awareness, while building communication and teamwork skills in a professional setting

Campus Parc Seller   August 2023 – Present
-   Assist visitors and manage transactions for high-volume campus events
-   Maintain excellent customer service while balancing part-time work with full academic schedule