

William J. Reisner

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SECRET clearance active May 2020

EDUCATION

Vanderbilt University School of Engineering, Nashville, TN

Class of 2021

B.E. Mechanical Engineering

Vanderbilt Aerospace Design Laboratory, NASA Student Launch Competition

- **Vehicle team lead and Safety Officer**, responsible for design, manufacture, and testing of rocket vehicle
- Selected by professors to join senior design team

Vanderbilt Undergraduate Teaching Assistant, ME 1151: Laboratory in Machining

- Supervise, teach, and provide expertise in safe use of larger manufacturing equipment including lathes, mills, and band saws as well as hand tools

Student Mentor, Vanderbilt Design Studio *Small scale prototype design and development*

- Provide expertise and supervision in 3D printing, CAD, electronics, woodworking, fasteners

Vanderbilt Motorsports, Formula SAE Electric vehicle team

- **Powertrain team lead** with six team members. Integrated chassis/suspension systems by building control arms, mounting tabs, machining hubs and other general machining

Vanderbilt Mechanical Engineering Safety Committee

- Selected by professors to provide input on safety issues within ME department

Software: SAP, Solidworks, Inventor, Creo Parametric, MS Access, MS Project, LabVIEW, MATLAB, COMSOL

EXPERIENCE

LOCKHEED MARTIN CORPORATION, Aeronautics Company, Fort Worth, TX

Summer 2020

Engineering and Technology Intern, F-35 and F-16 Weapons Integration Teams

- Wrote F-35 Store Integration Plan in support of AIM-9X Sidewinder Block II/II+ integration contract
- Refreshed Flight Test/Flight Data/Interface Memo tracker using MS Access
- Created process flow diagram documenting integration from contract award through certification using MS Visio
- Supported anti-radar missile testing for F-16 upgrades

HU-FRIEDY MFG., CO., Chicago, IL *Leader in design and manufacture of professional dentistry equipment*

Mechanical Engineering Intern

Summers 2018 - 2019

- Eliminated a step in production of a high-margin product. Potentially decreased manufacturing time by 480 hours, saving ~1% of manufacturing cost
- Updated and improved documentation in response to ISO audit (ISO 13485)
- Tested and documented strength data of four instrument categories for NPD comparison. Reduces strength testing by ~50%, ~30 hours of testing per year
- Analyzed and redesigned process flows to improve manufacturing floor efficiency using Lean concepts
- Developed procedure to remove flux from induction brazing in support of automated induction brazing implementation. Increased productivity by about 250%
- Developed procedure to remove buffing compound in an ultrasonic bath in support of automated cleaning implementation. Saves \$75-100k/year

PERSONAL

Love tennis, hiking and mountain biking, Reached summit on seven (Colorado) 14,000 ft. peaks