

Michael P. Fox

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Education

Bachelor of Science, Aerospace Engineering – University of Cincinnati – Cincinnati, OH **Class of 2020**
GPA: 3.90/4.00

- Minors in Materials Engineering and Mathematical Sciences

Experience

Research Co-op, Ultrasonic Imaging Lab – Cincinnati, OH **5/18 – Present**

- Establishing “cryoultrasonic” freezing methods for revolutionary material evaluation
- Develop new nanocomposite structures with improved ultrasonic quality for advanced scanning in complex aerospace components
- Manage and prepare data for proof of concept to non-destructive evaluation community
- Improve lab equipment, methods, and documentation for sustained project growth by prioritizing results needed for meaningful progress towards implementation

Process Engineering Co-op, Valeo Engine Cooling – Greensburg, IN **8/17 – 12/17**

- Implemented long-term data tracking on multi-factor dependence of machine behavior while reducing production scrap (>4% monthly department scrap cost savings)
- Presented customers and executives with results to secure project control and support
- Managed machine innovations from concept to implementation with budget constraints
- Organized team to manage gauges and documentation for increased audit performance

Quality and Process Engineering Co-op, Valeo Engine Cooling – Greensburg, IN **8/16 – 12/16**

- Inspected aluminum and brazing from production via metallurgical and GD&T analysis
- Optimized automation routines and production methods, reducing run time and stops
- Improved process documentation towards company conformance and greater utility
- Diagnosed machine and method issues to improve safety, ergonomics, efficiency, and product quality under “Kaizen” principles

Skills

- MATLAB
- SOLIDWORKS (CAD software)
- Microsoft Office Suite
- Tooling (CNC programming)
- STAR-CCM+ (CFD software)
- Siemens PLM software
- JavaScript and C++ (novice)
- Spanish (Limited Working Proficiency)

Organization Roles

Internal Vice President, UC American Institute of Aeronautics and Astronautics **7/18 – Present**

- Guide peers through engaging and fulfilling opportunities in an exciting industry
- Prioritize interdisciplinary engineering for a broader student experience of industry

Development Director, BikeWorks (American Society of Mechanical Engineers) **1/18 – Present**

- Coordinate repair and donations of student-fixed bicycles to local charity organizations
- Lead effort to regulate projects, inventory, and work distribution after relocation in 2017

Officer, Aerospace Department Student Advisory Council **9/18 – Present**

- Mediate between department and students in discussion for continuous improvement

Senior Member, UC Rocketry Club **9/15 – Present**

- Design, build, test, and manage model rockets while mentoring new members

Availability

Internship/Co-op and Full-Time **8 months** (January 2019 – August 2019) and after May 2020