

Joe Jobscan

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EDUCATION

Bachelors of Science, Materials Engineering

September 2016 - June 2019

Carnegie Mellon University, Pittsburgh, PA

Dean's List Recipient (9/12 Quarters)

RELEVANT EXPERIENCE

Research & Development Engineering Intern

June 2018 - September 2018

Sports Equipment USA Inc., Seattle, WA

- Set up, operated, and optimized an instrumented drop tower system to collect force-time histories of carbon fiber components during impact
- Analyzed force-time histories to evaluate post-impact damage and constructed evaluation reports for the components
- Cut coupons from post-impact samples for Instron testing and analysis
- Manufactured carbon fiber components of different compositions and layups using compression molding
- Developed understanding of how the intrinsic factors of manufacturing carbon fiber affect the performance

Turbopropulsion Lab Intern

December 2014 – March 2015

Boeing, Chicago, IL

- Calibrated and tested large-scale 3D printer to accurately print cost-effective replacement components for turbine engines
- Completed independent projects such as carbon fiber layup and wiring for lab's quad copter

TECHNICAL PROJECTS

Senior Project

September 2018 – June 2019

Carnegie Mellon University, Pittsburgh, PA

- Synthesized γ -CDMOFs using an established procedure with vapor diffusion
- Encapsulated hexanal within network of γ -CDMOFs using vapor diffusion
- Characterized encapsulation efficiency of hexanal in γ -CDMOF network using x-ray diffraction, thermogravimetric, and scanning electron microscope analysis

Analysis of Heat Affected Zone of a Welded 316L Stainless Steel Part

April 2019 – June 2019

Carnegie Mellon University, Pittsburgh PA

- Sectioned specimen from welded region of part
- Performed metallography and microhardness tests to determine the differences in structure and mechanical properties between the different regions of the heat affected zone

SKILLS

Materials Engineering

- Knowledge of corrosion protection and prevention methodology
- Solidworks, MATLAB, Minitab, Autodesk Fusion 360, Slic3r, Microsoft Office Suite, Photoshop
- Instron, hardness/microhardness testers, XRD, TGA, DSC, SEM, hydraulic press, additive manufacturing: powder bed fusion, stereolithography, fused deposition modeling; lathe, mill, CNC

