

OLIVER DOBON

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WORK EXPERIENCE

Argonne National Laboratory

Lemont, IL
Jan. 2016 – Present

Co-Operative Education Position: ATLAS Cryogenics Group

- Build mechanical and electrical assemblies in support of cryogenic and accelerator operations
- Oversee contractors during the installation of the Argonne site-wide helium recovery project, ensuring effective and timely completion of all operations
- Monitor various cryogenic metrics to diagnose refrigerator behavior and find solutions that optimize cooling capacity
- Perform tests to ensure proper integration of various components with PLC control systems

Medinah Country Club

Medinah, IL
May 2009-Aug. 2016

Caddy

- Analyze the golf course and advise members on options and strategy
- Manage the training of new caddies and assist with caddy development plans

EDUCATION

University of Illinois at Urbana-Champaign

Bachelor of Science, Systems Engineering and Design

Dec. 2018
GPA: 3.47/4.00

LEADERSHIP AND ACTIVITIES

Student Space Systems

Champaign, IL
Aug. 2016 – Present

Project Manager: Fuels

- Design the fuel system for the Liquid V1 rocket engine, ensuring that system design and all components abide safety codes and that all fuel flow specifications are met
- Work closely with the avionics department to ensure that all controls specifications are met
- Create all plumbing assembly and sequencing procedures

Formula SAE

Champaign, IL
Aug. 2016-Present

Engine Subsystem Team Member

- Conducted research in preparation for the development of a dry sump system upgrade that minimized oil slosh and maximized oil flow rate, effectively increasing overall performance of the Formula SAE racecar
- Designed and experimented with numerous baffle geometries and configurations

UIUC Speech and Debate Team

Champaign, IL
Aug. 2016 – Dec. 2016

Team Member

- Utilize excellent communication skills to perform in numerous events
- Select, prepare, and practice performances daily for weekly competition

Camp Kesem Illinois

Champaign, IL
Aug. 2013 – Aug. 2015

Counselor

- Volunteered for a summer camp program that provides for children with parents affected by cancer

ENGINEERING AND TECHNICAL SKILLS

- Strong understanding of fluid flow behavior and thermodynamics
- Experienced with Inventor and AutoCAD
- Experienced with machining and fabrication
- Familiarity with pneumatic circuits and components
- Familiarity with PLC programming
- Familiarity with C, C++, Java, Matlab & Python

RELEVANT COURSEWORK

Math & Science courses: Calculus: I, II, III; Differential Equations; Linear Algebra; Physics: Mechanics, Electricity & Magnetism, Thermal; Chemistry I & II

Engineering courses: Statics, Dynamics, Mechanics of Materials, Fluid Mechanics, Thermodynamics, Electronic Systems, Analogue Signal Processing, Design & Modeling, Programming/Computing

HONORS AND AWARDS

Chick Evans Scholarship

Apr. 2013 – Present

- Earned a full tuition scholarship to the University of Illinois

Audrey Cunningham Forensics 500 Speech and Debate Tournament

Sept. 2016

- Semi-finalist in Parliamentary Debate

Phi Rho Pi National Competitor

Apr. 2016

- Competed at the national level in Parliamentary Debate