

# Kevin Uvodich

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## Education

### University of Illinois at Urbana-Champaign (UIUC)

Bachelors of Science in Mechanical Engineering (May 2019)

GPA: 3.84/4.00

Masters of Science in Mechanical Engineering (May 2021)

GPA: 4.00/4.00

## Project Highlights

### Research Fellow–UIUC Energy Transport Research Lab

August 2019–Present

- Conducting research for the Air Conditioning and Refrigeration Center Research Group (ACRC)
- Designed experimental setups for testing porosity of microchannel 3-D printing heat exchangers
- Submitted monthly technical reports to ACRC
- Wrote an ACRC project proposal for additively manufactured fin stamping dies
- Contributed to cold plate design for high voltage DC-DC converter project with 3 team members

### GPU Direct Liquid Cooling–Senior Design Project

January 2019–May 2019

- Designed and fabricated manifolds and sealing solutions to directly cool a GPU board with water
- Worked on a team of 5, presented weekly updates to professor, TA, and project sponsor
- Received 1<sup>st</sup> place following our final presentation out of 8 other teams
- Received invitation to InterPACK conference in Anaheim, CA, presented our work on a poster

## Work Experience

### Mechanical Design Analysis and Prototyping Intern

April 2018–Present

*Brunswick Corporation (ijet Lab)*

Research Park, Champaign, IL

- Designed and fabricated a marine-based power generator on a team with 2 electrical engineers
- Applied Creo, metal-working, and hands on skills to develop the enclosure and airflow system
- Conducted tests and analyzed data on temperature, pressure, and sound output
- Responsible for creating and providing engineering drawings to part suppliers and machine shops to obtain quotes and lead times while staying on schedule and monitoring the project budget
- Presented initial prototype proof of concept at corporate office project fair
- Consulted 2 industrial design interns for improving user experience with the control panel
- Leading second stage redesign of generator to produce and deliver a newly improved prototype to Product Manufactory, researching possible technologies in areas of desired improvement
- Assisted with other projects involving app development through weekly brainstorming and collaboration sessions with 3-15 other interns

## Technical Skills

PTC Creo, AutoCAD, Matlab, C++, Microsoft Office

## Teaching Experience

### Peer Tutor

January 2016–May 2017

*College of DuPage Learning Commons*

Glen Ellyn, IL

- Prepared handouts and practice problems to go over at weekly meetings
- Structured sessions to accommodate up to 3 students in different class sections at the same time; anticipated and assessed student needs
- Managed records of each session and prepare for future sessions
- Received 100% positive responses on tutor surveys and staff reviews each semester
- Developed strong, positive relationships with students by communicating and meeting needs

## Leadership and Activities

- Koinonia House Student Life Director
- Cru bible study leader
- Engineering Pathways Scholar, Ed Posh Scholar
- 1st Place Midwest Math Competition
- Golf team, NJCAA national championship qualifiers
- Journal publication (“Anthem of an Italian Stallion”)

May 2018–Present

August 2018–Present

August 2017–Present

October 2016

August 2015–June 2017

May 2017