**BEN DIBUZ**

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**EDUCATION**

**University of Illinois at Urbana-Champaign** *August 2018*

* Bachelor of Science in Mechanical Engineering

**PROFESSIONAL EXPERIENCE**

**Abrasive-Form** Bloomingdale, IL

*Product/Tooling Engineer July 2018 – Present*

* Designing work-holding fixtures using Solidworks optimized for cost, manufacturability, and ease of use by operator
* Managing new product development process from beginning to end, including vendor selection, communicating with customers, updating customer-specific documentation, and documenting process development
* Interpreting GD&T drawings to develop inspection methods for critical-to-quality dimensions

**Abrasive-Form** Bloomingdale, IL

*Engineering Intern June 2017 – August 2017, January 2018 – June 2018*

* Built a custom locally-hosted intranet site for accessing read-only instructions on the shop floor using PHP to push files to a front-end, and data processing & visualization system using MS Access to track on-time deliveries
* Redesigned the tool storage crib and check-out process from the ground up to improve trackability and efficiency of asset management
* Applied lean manufacturing concepts to help operators implement new standard work

**UIUC Nuclear Physics Laboratory** Champaign, IL

*Research Assistant August 2017 – December 2017*

* Constructed precision assemblies of fiberoptic cable structures to capture and measure particle dispersion in the Brookhaven particle accelerator
* Optimized use of inventory to ensure availability of resources within limited budget
* Iteratively improved assembly components for tungsten-epoxy composite for fiber-optic assemblies

**UIUC MechSE Department** Champaign, IL

*Research Assistant July 2016 – December 2016*

* Designed CAD models and drawings of microchannel heat exchanger assembly
* Researched and implemented assembly solutions for high-pressure test system
* Collected and managed data on physical properties of assembly subsystems

**LEADERSHIP & INVOLVEMENT**

**Pumping Station: One** Chicago, IL *General Member October 2018 – Present*

* Designing and building functional lamps to practice design, woodworking, welding, and circuitry skills

**University of Illinois Hyperloop Pod Design Competition** Champaign, IL *Chassis and CAD Team Member August 2015 – May 2016*

* Designed the frame of the chassis using Siemens NX and Autodesk Inventor
* Researched materials and optimized manufacturability of frame within a budget

**Acacia Fraternity** Champaign, IL

*Assistant Philanthropy Chair January 2015 – March 2016*

* Planned, organized, and executed a new annual carnival event as our organization’s new predominant philanthropic event to raise funds and awareness for ALS
* Oversaw the successful execution of multiple annual philanthropy events, including a hockey tournament, clothing drive, and annual blood drive

**RELEVANT SKILLS & SOFTWARE**

*Solidworks, ProE/Creo, AutoCAD, GD&T, Vericut, Illustrator, Photoshop, Excel, SQL, MS Access, HTML, CSS, JavaScript*