

Nicolas Hall

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Profile

Driven Mechanical Engineer with IMI Norgren. Excited by the ways design and mechanics solve difficult problems. Background in Mechanical Design, FEA, and Fluid Dynamics. Strong leader with excellent technical communication skills.

Experience

IMI NORGREN

Mechanical Engineer

(Sep 21-Present)

- Member of NPD and Design groups in Littleton, CO.
- Leader of Food Prep Automation Innovation team, focus on food robotics.
- Organized Augmented Reality roll-out to 3 manufacturing sites in the Americas.

IMI Grad – R&D Rotation II

(Mar 21-Sep 21)

- Led multi-disciplinary innovation team in vertical farming and process control.
- Implemented new Augmented Reality guides in assembly processes for training and complex assemblies.
- Led internal engineering prototype organization and clean-up

IMI Grad – Operations Rotation

(Sep 20-Mar 21)

- Overhauled RMA process for site in Rockford, IL. Reduced RMA cycle time by over 50% and reduced open RMA count by 50%
- Resolved hundreds of customer problems and requests

IMI Grad – R&D Rotation I

(Mar 20-Sep 20)

- Generated new product for IMI Norgren under Growth Accelerator program, addressing a new market with projected revenues of +£100 million. Co-Inventor on 4 provisional patents.
- Designed prototypes and test parts for both in-house and outside manufacture, selected necessary hardware, conducted extensive FEA and physical testing.

IMI Grad – Business Dev. Rotation

(Sep 19-Mar 20)

- Managed Growth Accelerator team, organizing global team in identifying and delivering a new market with revenues of +£100million.
- Conducted >70 voice of customer interviews to identify opportunities, bust assumptions, and explore markets.

PRATT & WHITNEY

Programs Intern

(Jun 17-Aug 17)

- Assisted team in critical upgrade activities for newly delivered engines by managing field issues, suppliers, and planning fleet retrofits.

COLORADO HOUSE OF REPRESENTATIVES

Legislative Intern

(Feb 17-May 17)

- Provided broad research for bills on healthcare, environment, and elections.
- Created and maintained healthcare bill tracker.

Education

COLORADO SCHOOL OF MINES

B.S. Dec 2018 (Cum Laude)

Major: Mechanical Engineering
Minor: McBride Honors Program

GPA: 3.57

Skills and Certifications

- **Engineering:** Mechanical Design, Fluid Dynamics, Thermodynamics, Heat Transfer, Circuits, FEA, Feedback Control, DFMEA, Material Processing, CFD, GD&T, CMM, Pneumatics, Hydraulics
- **Manufacturing:** Lean Manufacturing, Quality, Value Stream Mapping, Augmented Reality, 8D and A3
- **Computer:** MATLAB, SolidWorks, Inventor, LabVIEW, Oracle EBS, Mathcad, Excel, Word, PowerPoint

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- **Communication:** Public Speaking, Presentation, Technical Writing, Customer Interaction
- **Personal:** Top Performer, Empowered, Leader, Organized, Responsible

Certifications:

- SolidWorks Associate
- Certified Fluid Power Specialist

Hobbies and Interests

- Love to ski, looking for backcountry partners.
- Avid home cook and baker, I have used COVID to perfect a mean sourdough.
- Aiming to complete all Colorado 14ers by 30. I am still intimidated by Little Bear