

Jordan Kemp

3 Canterbury Way • Farmingdale, NJ 07727 • (908) 770-8809 • jkemp26@vt.edu

Education

B.S. Mechanical Engineering

- GPA: 3.51

Virginia Tech, May 2020

Dean's List: Spring & Fall 2017, Spring 2018

Skills

Advanced Knowledge

- Six Sigma Green Belt
- Autodesk Inventor

Proficiencies

- Thermodynamics and Fluid Mechanics
- Heat and Mass Transfer

Related Skills

- SolidWorks, CarSim
 - Python, MATLAB
-

Professional Experience

Manufacturing Engineering Intern *Trane*

Summer 2018

- Cross-functional member of \$25-million project to design 6500 ft² assembly line for new S8 furnaces
- Applied Lean Manufacturing and 3P problem solving skills to design material presentation, material delivery, and standard work for 27 workstations
- Successfully led 2 Rapid Improvement Events by redesigning subassemblies to reduce motion by 50%
- Collaborated with design engineers to alter torque requirement of 3 fasteners
- Designed and implemented manual up-ender for mid-production rework and gas-leak quality testing
- Utilized Windchill to create PFEP for S8 assembly line

Researcher *Bioelectromechanical Systems Laboratory*

Fall 2016 – Present

- Research in Irreversible Electroporation Oncology to treat liver cancer within a targeted region of tissue
- Analyze Phase Changing Materials to reduce heat transfer during intense electroporation
- Published Studies in Oxford Abstracts – “The Development of Phase Change Electrodes for Electroporation-based Therapies”
- Design and fabricate monopolar and bipolar probes to maximize heat reduction within explanted organ

Data Analyst *LASAR Logistics*

Summer 2017

- Proposed Standard Operating Procedure to reduce probability of damaging product by 35%. Projected savings of \$20,000 on damages annually
 - Redesigned forklift travel path protocol to minimize congestion and number of empty transports
-

Projects

Rear Suspension Design *Baja SAE*

Fall 2018 – Present

- Member of Suspension R&D Sub-team responsible for designing and fabricating new H-arm suspension for competitive Baja rally car competition
 - Member of Modelling & Simulation Sub-team responsible for creating accurate computer models of vehicle to analyze load distributions and vehicle performance
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Leadership

College of Engineering Dean's Team

Spring 2017 – Present

- Ambassador for College of Engineering
- Present to over 100 weekly prospective Engineering students about insight on undergraduate programs

International Society of Automation (ISA) *Co-founder, Education Chair*

Fall 2018 – Present

- Organize company information sessions to recruit and teach students about automation in the engineering field and real-world PLC applications

Rubik's Cubing at Virginia Tech (RCVT) *Co-founder, Secretary*

Spring 2017- Present