Jonathan Kelley

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jkelleyrtp.github.io/portfolio

EDUCATION

Olin College of Engineering | Needham, MA — 2018 - Present
Electrical and Computer Engineering

North Carolina School of Science and Mathematics | Durham, NC — 2016 - 2018
Research in Physics and Engineering

SKILLS & AWARDS

- Python, C, OpenCL/MP, Lua, Solidworks (CSWP)/Creo, Eagle PCB, EMWorks FEA
- CONRAD Spirit of Innovation International Challenge Winner
- High School Mathematical Contest in Modeling National Finalist
- FRC Event Winner (x3), Finalist (x1), World Championship Qualifier (x2)
- MIT ZERO Robotics "SPYSPHERES" ISS World Finalist

ACTIVITIES & EXPERIENCE

LEAF Systems | Co-Founder — (2017 - Present)
Founded asset-tracking technology startup to improve automation, robotics, healthcare, and defense

- MIT Sandbox Fall Cohort Admit
- Y Combinator Startup School Admit
- Arent Fox Pro Bono Patent Prize

Nuclear Fusion Physics Research — (2016 - Present)
Self-designed computational and experimental physics research into Inertial Electrostatic nuclear fusion

- Multiple-year physics research program working on project with assistance of NCSU and Duke
- Developed parallel computing algorithms for self-interacting electron plasma in low beta confinement
- Published in Broad Street Scientific, NCSEF Regional Winner, Yale Science Award

FIRST Robotics | Team Founder and Director — (2014 - 2018)
Leadership position managing nearly 30 high school students to design, build, and program a 120lb, $4,000+ robot on a World level.

- As Lead Director, managed Engineering, Business, and Outreach teams
  - Houston World Championship Award for Quality Design
- Guided team growth from 8 Students in garage to 29 students in leased 3300 sqft workshop
- Leading grant writing and corporate sponsorship efforts totaling over $120k in 4 years

NASA HUNCH (High schoolers United with NASA to Create Hardware) — (2016 - 2018)
Working with NASA Engineers to develop innovative solutions for real problems aboard the ISS

- Received $2000 from NASA to develop working space-flight additive manufacturing prototype
- Delivered prototype and CAD to NASA Langley Research Center over 2017 Summer
- Led projects including Augmented Reality assistant and real-time inventory system

Conrad Challenge Alumni Leadership Council | Organization Development Lead — (2018 - Present)
Foundation leadership position building corporate and university partnerships for the Conrad Challenge

- Founded university partnerships with Olin College of Engineering and Florida International University
- Founding *Olin Summer Incubator* for Olin and Conrad Challenge Students
- Started *Conrad Chapters* to bring student entrepreneurship curriculum to high school students

NOTEABLES

- Summer position managing CAM and job quoting for Barbour Machine Inc. (Summer 2018)
- NCSSM Engineering Research and Shop Manager (2017 - 2018)
- Olin Electric Motorsports Electronic Design (2018 - Present)
- International Aerial Robotics Competition (IARC) (2018 - Present)