

# Logan Nofsinger

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## Education

**Vanderbilt University, Nashville, Tennessee** (Cornelius Merit Scholar, 2016-2019) **Early Graduation - December 2019**

Bachelor of Engineering: Mechanical Engineering. **GPA: 3.75**

Minor in Chinese Language and Culture, Attained ACTFL OPI Advanced Mid Rank

**Carol Martin Gatton Academy of Mathematics and Science in Kentucky in Bowling Green, Kentucky**

Completed two years at Western Kentucky University while dual-enrolled at Manual High School, **70+ HRS, GPA: 4.0**

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## Technical Skills

CAD/Drafting/FEA	Modelling	Programming	Making
SolidWorks	MATLAB/Simulink	Java, Basic C++, Basic C	Traditional/Modern Machining Tools
AutoCAD Inventor	LabVIEW	Business Tools	Electronics, 3D Printing/Prototyping
Creo Parametric	LTSpice	Microsoft and Google Suites	Designing/Applying Controllers

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## Experience

**CubeLab Engineer, Mechanical Systems Intern, Space Tango, Lexington, KY**, January 2020-present

Design CubeLab components for modern manufacturing processes. Plan and build mechanical, electromechanical, and fluidic system layouts. Component and system testing and all-around problem solving.

**Industrial Design Engineer, T2 Design Corporation, Santa Monica, CA**, May 2019-November 2019

Analyze, plan (first principles), design, and produce client products using modern manufacturing and prototyping methods

Evaluate manufacturers requirements, produce and test prototypes, guide quality improvements, lead production runs

Design for Manufacturing including: injection molding, hand and CNC machining, stamping and additive manufacturing

**Frame and Drive Mechanical Subteam Lead, Vanderbilt NASA RMC Robotics Team**, 2018-2019

Lead logistics, design (Inventor), parts requisition, drafting (gdnt), machining, and assembly of Martian robotic mining chassis

Lead research and development of structural and power transmission systems, motor specification and designed motor mounts

**Founder, Team Co-Captain, FIRST Robotics Competition Team Winner's Circle Robotics, #5492**, 2013-2016

Managed team organization and startup, recruit students/mentors, run meetings, lead fundraising of \$55,000 in first year

**Capstone Project Manager, Design of 400W Wireless Power Transfer System for DENSO Manufacturing**, 2018-2019

Managed mechanical/electrical engineering team of six students for high-powered robotics support project

**Trainer, Newton's Attic Engineering Education**, Summer, 2017

Trained over 150 students in hands-on STEM training programs including robotics, electronics, programming and woodshop

## Energy Research Experiences

Power Transition Engineering internship at the University of Canterbury, New Zealand, Spring, 2018

- Designed and proposed microgrids and development schemes for Kabakaburi, Guyana

Developed polymer solar cells under Dr. Rathnayake, Western Kentucky University & U of Louisville, 2014-16

- Assembled and tested cells. Used transmission electron microscope to examine nanoparticles

Conducted research developing lithium ion batteries under Dr. Arjun Thapa, University of Louisville, 2014

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## Service

**Vanderbilt DIVE Committee Member**, 2016-17

Designed and developed *Design as an Immersive Vanderbilt Experience Program*. Led human-centered design workshops

**WaterStep Volunteer**, Summer, 2017

Constructed chlorine and bleach generators to provide clean water and hygiene during emergencies and natural disasters

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## Awards & Activities

ACADEMIC	Cornelius Vanderbilt Scholar (4-year full merit scholarship awarded in 2016) Western Kentucky University President's Scholar Award 2015 and 2016, Gatton Academy Scholarship Awardee
LANGUAGE & CULTURE	Proficient in Mandarin. Three language scholarships to study in China for nearly 6 months, (Critical Language Scholarship, National Security Language Institute, and Confucius Institute). Over 30 foreign language credits in Korean, Mandarin, Spanish, and Maori with study abroad in New Zealand.
HACKATHON	First Place at CatHacks 2019 (University of Kentucky) for Autonomous Drawing Robot
ENGAGEMENT	Eagle Scout, Vanderbilt Ultimate Frisbee Team, ASME, Solidworks User Group