

# Luke Jungmann

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EDUCATION	<b>Master's of Science in Engineering</b> , Robotics Engineering University of Pennsylvania, Pennsylvania, PA, graduation May 2019
	<b>Bachelor's of Science</b> , Mechanical Engineering New Mexico Institute of Mining and Technology, Socorro, NM, graduated May 2017
TECHNICAL SKILLS	<b>Robotics</b> <ul style="list-style-type: none"><li>◦ Computer vision, machine perception, machine learning, AI, deep learning, quadrotor control, robotic pathfinding and manipulation, robotic hand and arm design, and much more.</li></ul>
	<b>Languages &amp; Software Experience</b> <ul style="list-style-type: none"><li>◦ <i>Proficient</i>: Python, SolidWorks, Matlab, JavaScript/Typescript, and Angular.</li><li>◦ <i>Beginner to Intermediate</i>: LabVIEW, C, Unity, Mathcad, and Java.</li></ul>
RESEARCH AND EXPERIENCE	<b>Software Developer</b> January 2018 to February 2019 <i>Aerial Applications, Robotic Services, Inc.</i> <ul style="list-style-type: none"><li>◦ Part of software development team focused on designing the frontend design and backend API of the Aerial Applications main app using Angular and NodeJS.</li><li>◦ Angular's Material package was the primary focus for frontend design, combined with HTML, SASS, and Typescript programming.</li></ul>
	<b>Research Assistant</b> Summers 2015 and 2016 <i>Sandia National Laboratories</i> <i>Bioengineering and Biodefense Department</i> <ul style="list-style-type: none"><li>◦ Assisted in the creation of a multi-spectral laser setup which was then manipulated using programs developed using MATLAB's GUIDE application.</li></ul>
	<b>Research Assistant</b> Fall 2016 <i>New Mexico Institute of Mining and Technology Mechatronics Department</i> <ul style="list-style-type: none"><li>◦ Performed research that directly benefited a design team working with a parallel-link manipulator for use with an aerial robotic platform.</li></ul>
	<b>Mechanical Engineering Senior Design Team</b> Fall 2015 to Spring 2017 <ul style="list-style-type: none"><li>◦ Worked in large design clinic team to design and construct a Blended Wing Body plane to compete in the yearly SAE Aero West Competition.</li></ul>
PROJECTS	<b>Product Design Teams</b> Fall 2016 to Present <ul style="list-style-type: none"><li>◦ Worked in small teams to implement knowledge and experience the teams have consolidated throughout their undergraduate and graduate careers to quickly design functional and visually appealing products, including a transformable cup, a parking kiosk, and a robotic hand.</li></ul>

- REFERENCES**
- David Grow, PhD, New Mexico Institute of Mining and Technology.  
Phone: (575) 835-5109    Email: grow.david@gmail.com
- Nathan Sullivan, Robotics Services, Inc.  
Phone: (301) 335-6556    Email: nathan@aerialapplications.co
- Stephen Anthony, PhD, Sandia National Laboratories.  
Phone: (217) 898-1581    Email: smantho@sandia.gov