

# Landon P. Doughty

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## EDUCATION

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Rice University - B.S. Electrical Engineering, GPA: 4.0  
Trustee Distinguished Scholar

Expected May 2028

## SKILLS

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**Design and Manufacturing:** SolidWorks, Onshape, FDM 3d Printing and Slicing, Laser Cutting

**Electrical Design:** KiCad, LTspice, STM32, ESP32, Arduino, Raspberry Pi

**Physical Electronics:** SMT/ THT Soldering and Prototyping

**Software & Programming:** Python, C++, Java, HTML/CSS, VSCode, MATLAB, LaTeX

## EXPERIENCE

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Rice ECLIPSE Avionics Engineer

August 2025 - Present

- Design and manufacture custom flight controllers and circuit boards for high-power rocketry
- Develop electronic systems for active flight stability using controlled fins.
- Devising a flight controller intended for use in a space-shot rocket

Rice Electric Vehicle Electronics Engineer

August 2025 - Present

- Help develop a fully custom motor-control system for efficient brushless DC hub motors.
- Design electronics and software systems for the car, such as control, display, and safety systems.
- Prototype and fabricate circuits and custom printed circuit boards.

Texas Children's Hospital Simulation Center - Intern (Houston, TX)

May 2024 – August 2024

- Operated a medical-grade 3D printer and designed 3d medical models used for teaching and medical simulations.
- Oversaw daily medical simulations for various complex scenarios.
- Controlled complex medical mannequins for surgical simulations, including various biorealistic functions.

TXRX Labs - Intern (Houston, TX)

May 2023 – August 2023

- Designed and manufactured math learning puzzles and games for a local non-profit.
- Developed maker-space lessons for Exxon-Mobil
- Led STEM community outreach for underprivileged children in the Houston area.

## PERSONAL PROJECTS - landondoughty.com

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## AWARDS

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International Science and Engineering Fair, Robotics and Intelligent Machines – 2nd Place 2023 & 2024

International Science and Engineering Fair, Central Intelligence Agency Award – 1st Place 2023