

Jacob Evans Peloquin



Hometown: Sycamore, Illinois
Cell: 815.501.7581
Email: jakepeloquin32@gmail.com

Website: peloquinprojects.weebly.com
www.linkedin.com/in/jacob-peloquin

Education

Georgia Institute of Technology

- Candidate for Bachelor of Science in Mechanical Engineering
- Candidate for Minor in Robotics
- GPA 3.83

Atlanta, GA
August 2017 – Present

Work Experience

Restor3d, *Research and Development Engineering Intern*

- Appointed as lead engineer for design of surgeon-specific orthopedic implants
- Personally designed and manufactured assembly fixture for 3D printed devices
- Assisted in 510(k) research and submission of five new clearance products

Durham, NC
May 2019 – August 2019

Invention Studio at Georgia Tech, *Prototyping Instructor and Head of CNC*

- Appointed Head of CNC Machining
- Created documentation for safe and efficient use of three CNC machines
- Assisted faculty, students, and researchers with prototyping using 3D printers, laser cutters, waterjet, CNC mills, etc.

Atlanta, GA
September 2017 – Present

Georgia Institute of Technology, *School of Mathematics Teaching Assistant*

- CIOS teaching evaluation by students score of 4.98/5
- Recipient of 2018-2019 Academic Year “Thank-a-Teacher” Award

Atlanta, GA
August 2018 – December 2018

Richardson Electronics, Ltd., *Mechanical Engineering and Design Intern*

- Designed and implemented eight currently in-use test fixtures using SolidWorks
- Identified and incorporated proper materials and test cases for high voltage and RF component applications
- Performed field tests on products and identified errors in production processes

LaFox, IL
May 2018 – August 2018

Ingenium Technologies, *Volunteer Designer*

- Designed and programmed an augmented reality sandbox from scratch
- Presented project at “Kids Engineering Day” at Rockford Discovery Center

Rockford, IL
January 2017 – April 2017

Research

Physiology of Wearable Robotics Lab, *Undergraduate Researcher*

- Development of a low-profile passive ankle exoskeleton for use in a long-term study of the effects of exoskeletons on muscular atrophy.
- Recipient of President’s Undergraduate Research Award (PURA) at Georgia Institute of Technology for Spring 2020

Atlanta, GA
August 2019 – Present

Invention Studio at Georgia Tech, *CNC Special Topics Course*

- Developed optimized toolpaths for milling 3D topographical maps
- Created safety documentation and walkthrough guides for CNC machines

Atlanta, GA
August 2018 – December 2018

Projects

Robotics101 Course at Georgia Tech

- Created and pioneered a new course in which students of any major can learn to program, design, 3D print, and manufacture a small RC car from scratch.
- Participation increased to 105 members in one year and includes students from 11 different majors

Atlanta, GA
August 2018 - Present

“FootMouse” Hands-Free Computer Controller

- Led team of 15 in research, design, and creation of hands-free computer interface
- Created innovative way for transradial amputee to control computer with feet

Atlanta, GA
January 2018 – April 2018

Arduino/Raspberry Pi Controlled Drone

- Personal quadcopter built from scratch with 3d printed frame
- Applied knowledge of Raspberry Pi and Arduino to allow for GPS navigation

Atlanta, GA
August 2017 – March 2018

Skills

Software/Programming: SolidWorks, Fusion 360, Simulink, MATLAB, LabVIEW, Java, Python, Cura
Manufacturing: 3D Printing (SLA,SLM,FDM), CNC Mill/Lathe, WaterJet, Laser Cutter
Hardware/Controllers: Arduino, Raspberry Pi, NI myRIO, Soldering