

Jacob A. Larkin

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PROFILE

I am a highly organized, dependable, self-motivated, personable student with proven academic success and a strong work ethic who is seeking a research position at Eglin AFB to enhance my Mechanical Engineering education.

EDUCATION

The Ohio State University – Bachelor of Science in Mechanical Engineering with Honors GPA: 4.00
– Minor in Entrepreneurship Expected Graduation Date: May 2014

HIGHLIGHTS OF QUALIFICATIONS

-Skilled in CATIA, AutoCAD, SolidWorks, LabVIEW, C++, MATLAB, Visual Basic, HTML, CSS, Java and Microsoft Office

ENGINEERING PROJECTS

- Graduate Research Associate (Autumn 2013 - Present)** – Ohio State's Computational Aero Elasticity Laboratory
-Modeling the fluid, thermal and structural responses of surface panels in hypersonic flow for defense development
- The Boeing Company Internship (Summer 2013)** – Linings Design Engineer within the Interiors Responsibility Center
-Investigated issues with 737 sidewalls and implemented solutions by utilizing rapid prototyping and design testing
-Designed a tool (patent pending) to assist in sidewall manufacturing and save Boeing \$30,000 per year
- Research Assistant (Autumn 2012 – Spring 2013)** – Ohio State's Acoustics and Dynamics Laboratory
-Developing a Spline Dynamics Experiment to further understand impact damping and the effect of viscous damping
- Gulfstream Aerospace Internship (Summer 2012)** – Advanced Aircraft Program, Mass Properties Engineer
-Developed proficient methods for analyzing weight and mass properties in order to generate accurate reports
-Integrated a hydraulic fluid weight calculator into company wide mass properties software
- Ohio State's Junior Year Air Motor Design (Autumn 2012)**
-An automated, 6-cylinder, radial engine machined to very high tolerances and powered by a programmed Arduino
- Ohio State's FEH Robot Design (Spring 2011)** – An autonomous robot designed to navigate a demanding course while completing multiple tasks during a two-minute time limit, while staying well below a budget
-Responsible for the mechanical and electrical design of the robot, while playing a large role in the programming
-Received the *Most Consistent Award* for achieving the highest overall average score

EMPLOYMENT HISTORY

- Ohio State University - *Laboratory Teaching Assistant***, Physics Department, Columbus, Ohio 2011 – 2012
-Responsible for teaching weekly physics labs with honors students learning about kinematics and electricity
- Ohio State University, *University Registrar Assistant***, Registrar's Office, Columbus, Ohio 2012 – 2012
-Collect classroom data daily to be used for future renovations, furniture orders, and maintenance schedules
- The Lakes Golf and Country Club, *Golf Attendant***, Golf Department, Worthington, Ohio 2006 – 2012
-Responsible for golf tournament preparation, general golf course maintenance, and member services

ACHIEVEMENTS

- Ohio State University Outstanding Senior** Awarded to less than 1% of Seniors who excel in Leadership, Service, and Scholarship
- Received the Ohio State MEAS Top Academic Award (2012 & 2013)** Highest scholar of Mechanical and Aerospace College
- Received the Kenneth O. Smith Award (2012 & 2013)** Highest merit and involvement within the Mechanical Engineering Program
- Benjamin G. Lamme Scholar** Awarded to the two most capable students enrolled in Mechanical & Electrical Engineering
- Received the Ohio State Physics Teaching Award** Excellent contributions determined through student evaluations
- Achieved Dean's List for all of 2011, 2012, 2013 & 2014** 3.50 GPA or higher
- COFFEE Program Scholarship recipient through Ohio State University** Engineering combined with Entrepreneurial curriculum

ACTIVITIES & INVOLVEMENT

- Inspire OSU – President & Co-Founder** 2013 – Present
-A student organization dedicated to making the process of community service more enjoyable, gratifying and efficient
- Business Builders Club – President & VP of Membership** 2013 – Present
-A group of passionate and highly capable students, who recruit, educate and fund students to foster entrepreneurship
- Common Cents Investment Group – President & Senior Advisor** 2011 – Present
-A large student organization focused on increasing the knowledge of our members through discussion of investment strategies
- Pi Tau Sigma – Director of Metro Middle School Engineering Club & Volunteer Chair** 2011 – Present
-An elite Mechanical Engineering Honor Society dedicated to fostering high ideals in engineering and leadership
- WOW! Science Org. – Teaching Aid** 2011 – Present
-Responsible for developing and scheduling science experiments with elementary school students to encourage learning
- Tau Beta Pi, Ohio State Water Ski Club, Pistol Club, Engineers without Borders and Campus Crusade** 2010 – Present