
Nicklas O. Stockton

(719)648-3545
5274 Brasher Ave.

nick.stockton@outlook.com
Blue Ash, OH, 45242

EDUCATION

University of Cincinnati
Bachelor of Science – Aerospace Engineering, Dean’s List

2013–Present
Cincinnati, OH

- GPA: 3.87 overall, 3.90 in Aerospace Engineering
- Expected graduation: Spring 2017

RESEARCH & EXTRACURRICULAR

National Science Foundation
Undergraduate Research

2013

- Analyzed a benchmark structural stability problem to devise a control methodology using fuzzy-genetic systems.
- System model exhibited both flexible and rigid body modes. Designed controller performed within 3% of theoretically ascertained limit of stability.
- Controller consists of a genetically-tuned fuzzy inference system.
- Presented findings at multiple conferences.

Air Force Research Labs Autonomous Air Vehicle Conference
Autonomous Air Vehicle Competition Team Member

2014–Present

- Competition challenge requirements included locating and imaging a target in an indoor, GPS-denied environment.
- Developed software to integrate various hardware components to ease the exchange of sensor data.
- Software processes raw data streams from serial connections to useful information to be used in the control and guidance of the air vehicle.
- Current work includes developing improved computer vision algorithms and interpreting encoded waypoint information.

PROFESSIONAL EXPERIENCE

Engineering and Scientific Innovations, Inc.

2014–Present

Research Engineer

Cincinnati, OH

- Overhauled proprietary fire suppressant delivery system resulting in a 70% efficiency gain.
- Assisted in the prototyping and proof of concept for flow introduction of powdered agent.
- Performed cavity analysis of hydrodynamic ram events using custom computer code.

Green It Up LLC—Lawn Care Company

2011–2013

Sole Owner and Operator

Colorado Springs, CO/ Provo, UT

- Grossed \$24,000 in sales in first year of operation.
- Satisfied needs of more than 100 regular clients.
- Maintained brand equity through personal management of 3 employees.
- Managed own finances, accounting and bookkeeping.
- Bought out business partner 3 months after start-up.
- Successfully facilitated transition of business from Colorado to Utah.

Philippines Bacolod/Iloilo Mission

2008–2010

Volunteer Representative, LDS Church

Philippines

- Learned instructional material in foreign language in 4 months.
- Designed and delivered weekly training sessions for up to 20 volunteers.
- Conducted weekly goal setting and accountability meetings.

Intermountain Lawns

2007–2008

Crew Leader

Colorado Springs, CO

- Led and supervised crew of 2–3 people daily.
- Handled and resolved on-site customer concerns.
- Improved maintenance procedure for all company equipment.
- Streamlined daily operations, improving efficiency of small team.

Embry–Riddle Aeronautical University

2005–2006

Flight Line Assistant

USAF Academy, CO

- Scheduled flight for over 100 students daily.
- Cleaned and maintained aircraft to ensure flight safety.
- Streamlined student check-in process, increasing instructional flight time.

SKILLS

- Beginner to intermediate proficiency in Autodesk AutoCAD and Inventor Pro.
- Basic software development using MATLAB, Python and Visual Basic for Applications.
- \LaTeX document preparation and typesetting.
- Familiarity with Linux-based operating systems.

PUBLICATIONS

- Janson, A., Stockton, N., Cohen, K., “Genetic Optimization of Fuzzy Logic Control for Coupled Dynamic Systems”, *SciTech*, AIAA, Kissimmee, FL, 2015.
- Brown, B., Crowell, C., Feie, B., Hatrmann, J., Hutchins, B., Kukreti, S., Mummidivarapu, S., Redmond, B., Sathyan, A., Stockton, N., Stubblebine, A., Kivelevitch, E., Cohen, K., “Development and Validation for the First Annual AAVC Competition by the University of Cincinnati Autonomous Vehicle Group”, *Autonomous Aerial Vehicle Conference*, AFRL, Wright–Patterson Air Force Base, OH, 2014.