Nicklas O. Stockton

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EDUCATION

University of Cincinnati *2013–Present*
Bachelor of Science – Aerospace Engineering, Dean's List *Cincinnati, OH*

- GPA: 3.87 overall, 3.90 in Aerospace Engineering

- Expected graduation: Spring 2017

RESEARCH & EXTRACURRICULAR

Air Force Research Labs Autonomous Air Vehicle Conference *2014–Present*
Autonomous Air Vehicle Competition Team Member

- 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.

National Science Foundation *2013*
Undergraduate Research

- 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 before a peer audience at multiple conferences.

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 high–speed 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 (Debian derivatives).

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., Hartmann, 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.