

# Christian D. Page, P.E.

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## Objective

Obtain a hands-on engineering position in an advanced research and development setting.

## Current Position

**Exponent, Inc.**, Menlo Park, CA

**Consultant, Technology Development Practice**, August 2013 to present

California Registered Professional Engineer, Mechanical Engineer, License No. 37610

Certified Additive Manufacturing Specialist, Society of Manufacturing Engineering (SME)

## Education

**North Carolina State University**, Raleigh, NC

**PhD in Mechanical Engineering**, June 2013. GPA: 3.35/4.00

**Minor in Materials Science and Engineering**

Dissertation topic: "Multifunctional Carbon Nanotube Yarns for Strain Sensing and Composite Reinforcement"

**North Carolina State University**, Raleigh, NC

**MS in Aerospace Engineering**, May 2010. GPA: 3.38/4.00

Thesis: "Wideband Vibrational Energy Harvesting: A Nonlinear Approach using Magnetostrictive Film"

**North Carolina State University**, Raleigh, NC

**BS in Aerospace Engineering**, May 2008. GPA: 3.14/4.00 major, 2.98/4.00 overall

## Graduate Coursework

Advanced Dynamics, Advanced Solid Mechanics, Finite Element Analysis, Lunar Rover Design, Mechanics of Composites, Mechatronics, MIMO Control Theory, Smart Structures and Materials.

\*Courses outside of major: Advanced Material Science, Engineering Entrepreneurship, Engineering Statistics, Polymer Engineering, Micro/Nano-scale Fabrication, RF and Wireless Design, Thermodynamics of Materials

## Past Experience

**NASA Graduate Student Research Project (GSRP)**, Raleigh, NC

Structural Health Monitoring Research, September 2009 to present

"Multifunctional Carbon Nanotube Yarn Strain Sensors for In Situ Structural Health Monitoring and Composite Reinforcement." Development of strong carbon nanotube yarn strain sensors that can be embedded within composite structures for real-time *in-situ* health monitoring.

**Nextgen Aeronautics**, Danville, VA

Aircraft Conceptual Design, June to December, 2008

Initiated Phase A of the HALE UAV project; Aircraft is expected to maintain station keeping for at least two weeks above 60,000 feet. DOD/USAF contract awarded to Nextgen in June '08. [[www.nextgenaero.com](http://www.nextgenaero.com)]

**Oxford University, NSF Study Abroad**, Oxford, England

Avian Aerodynamics and Biomechanics Research, May to June, 2008

Research project with Oxford's Zoology and Mechanical Engineering Departments to investigate avian aerodynamics. Assisted with field testing; flying a Steppe Eagle outfitted with a camera and 6-DOF IMU. Developed knowledgebase to initiate a 'Bio-Inspired Senior Design' option in AE Dept. Highly awarded.

**NASA Dryden Flight Research Center; Flight Loads Laboratory**, Edwards AFB, CA

Wing Shape Sensing Research, May to August, 2007

\$15k research grant and 11 week internship program to develop neural network (specific to complex structures) that will receive strain input and outputs deformed shape. Compared findings with closed form and numerical models with less than 0.1% error.

## Skills

**Computer:** Arduino, AutoCad, C/C+, Excel, Fortran, Hypersizer, Maple, Matlab, Photoshop, Powerpoint, Processing, Solidworks, Word.

**Technical:** Skilled in hand tools, woodworking, and machinery; composite layup (hot-press pre-preg, vacuum infusion, wet layup), 3d printing, mechatronics, electronic fabrication, mechanical design and procurement creative, resourceful, mechanically inclined.

## Non Job-Specific Activities

Lab organization and management, Social event planner for the Associate/Sr. Associate workforce.