Andrew Duenner

EDUCATION

The University of Texas at Austin – GPA: 3.9	May 2016
B.S. Mechanical Engineering	

The University of Tulsa - GPA: 3.9	January 2013 - May 2014
B.S. Mechanical Engineering	

The University of Texas at Austin – GPA: 3.9	May 2012
B.B.A. Business Honors and Finance	

ACADEMIC EXPERIENCE

January 2015 - Present

University of Texas Nanoscale Design and Manufacturing Lab   Austin, TX
Undergraduate Research Assistant

- Developed novel method for passive alignment of silicon wafers
- Jointly designed automated sample stage for atomic force microscope
- Optimized and fabricated micronewton resolution strain gauge amplification sensor

August 2015 - Present

The University of Texas at Austin   Austin, TX
Teaching Assistant

- Served as teaching assistant and grader for machine tool operations class
- Assisted with development of assignments for CNC machining topic

INDUSTRY EXPERIENCE

November 2012 – May 2015

Oklahoma Forge, Inc.   Tulsa, OK
Engineering Intern

- Designed, and installed an industrial descaling system to improve forging quality
  - Created custom parts and simulated mechanical interactions in SolidWorks
  - Programmed and wired control interface for programmable logic controller
- Assisted with the design of an open-die chain link forging press

ACTIVITIES

Advanced Open Water Scuba Diver   Fall 2012 – Fall 2013
Amateur Radio Operator, Technician (KF5LBF)

HONORS & AWARDS

National Merit Scholar	**Dean's Honor List –** Four Semesters
Phi Beta Kappa	**University Honors –** Five semesters

PUBLICATIONS

Duenner A, Cullinan MA. Passive Semiconductor Wafer Alignment Mechanism to Support In-line Atomic Force Microscope Metrology. ASPE 2015 Annual Meeting. Austin; 2015.

Yao T-F, Duenner A, Cullinan MA. In-line, Wafer-Scale Inspection in Nano-Fabrication Systems. ASPE 2015 Annual Meeting. Austin; 2015.

Ladner I, Duenner A, Cullinan MA. Carbon Nanotube Growth Force Detection on Multi-Axis MEMS Sensor with Integrated Microheater. ASPE 2015 Annual Meeting. Austin; 2015.

CERTIFICATIONS   Certified LabVIEW Associate Developer

SPECIAL SKILLS

Software: Microsoft Office, SolidWorks, Matlab, LabVIEW, Python, Eagle, Mastercam
Technical: CNC programming and machining, electronic circuit design and fabrication