

# Kenan L. Cole

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<b>Education</b>	<b>2003-2007</b>	<b>The George Washington University</b> <i>B.S. in Mechanical Engineering</i> <i>Summa Cum Laude</i>	<b>Washington, DC</b> Cum. GPA: 3.92
	<b>2007-2010</b>	<b>The George Washington University</b> <i>M.S. in Mechanical Engineering</i> <i>with Thesis Jan 2011</i>	<b>Washington, DC</b> Cum. GPA: 3.85
		Thesis: Design, Analysis, and Optimization of an Interferometer for Extreme Ultraviolet Interference Lithography	
	<b>2011-Present</b>	<b>The George Washington University</b> <b>Ph.D. Candidate</b>	<b>Washington, DC</b> Cum. GPA: 3.85

## Research Experience

### Precision Systems Laboratory

#### Fall 2007 – Present

Research Projects Include:

- Collaborative project with the National Institute of Standards and Technology on Extreme Ultraviolet Interference Lithography
- Robert's Linkage Vibration Isolation System
- Optimization routine to optimize the shape of a flexure

Presented at ASPE Spring 2008 Topical Conference – Berkeley, CA

- Paper entitled "Design of an Interferometer for EUV Interference Lithography at the NIST SURF III Synchrotron"

### Naval Research Laboratory

#### Summer 2009 – Present

Position: Engineer in Tactical Electronics Warfare Division

Projects Include:

- Design, manufacture, wiring, and software development for a motion table testing system that is used to improve and prepare hardware for field testing.
- Radio testing which included over 2000 trials of data to compile, analyze, and correlate with field measurements. Prepared several written reports and presentations of the results for the Sponsor.
- Expansion of TEWDs multivehicle control laws using high performance supercomputers to provide models of 100s and 1000s of vehicles. Presented this work as part of a culminating course project.
- Design of experimental testing fixtures to obtain data on antenna coupling for hardware development.

## Fellowships

### Presidential Administrative Fellowship

Fall 2007 – Spring 2009

### International Test and Evaluation Scholarship

Spring 2010

**Teaching Experience**

- **Lecturer for The School of Engineering and Applied Science at GWU**
  - Instructor of Junior level Mechanical Design Course
- **Teaching assistant for the following courses:**
  - Materials science
  - Mechanical engineering introductory course
  - Methods of engineering experiments – I developed the course labs
  - Numerical Methods

**Academic Honors**

- School of Engineering and Applied Science Dean's List 2003 – 2007
- Benjamin C. Cruikshanks Award 2007
- Alfred Martin Freudenthal Prize 2007
- George Washington University Distinguished Scholar Award 2007
- School of Engineering and Applied Science Tau Beta Pi Award 2006
- George Washington University Outstanding Academic Achievement Award Recipient 2005 and 2006

**Job Experience**

**August 2007-July 2008 The George Washington University Washington, DC**  
*Presidential Administrative Fellow in The School of Engineering and Applied Science*

- Organized and led several hands-on Lab Days for high school students
- Hosted a panel of engineers for current GW students
- Aided in the annual New Student Getaway for incoming students held each summer before the start of classes
- Planned and executed GW SEAS annual hosting of the Junior Engineering Technical Society (JETS) spring TEAMS Competition

**Summer 2004 The George Washington University Washington, DC**  
*General Physics I Tutor*

- Tutored a group of athletes in PHYS 001 over a 1.5 month period

**Activities**

**The George Washington University Varsity Women's Basketball Team**  
**Fall 2003 – Spring 2007**

- Awarded Full Athletic Scholarship Fall 2003 – 2007
- *ESPN The Magazine* Academic All-America First Team 2007
- *ESPN The Magazine* Academic All District II First Team 2007
- Division I-AAA Athletics Directors Association Scholar-Athlete Team 2007
- 2.5 Year Starter on 11<sup>th</sup> Nationally Ranked Team (Final Ranking in 2007)
- Named to A-10 All Academic Team 2006, 2007
- Named to A-10 All Conference 3<sup>rd</sup> Team 2007
- Received Team Academic Award 2004 – 2007
- Athletic Dean's List 2003 – 2007
- Team Qualified for NCAA Tournament 2004-2007
  - Sweet Sixteen Appearance 2007
- A-10 Commissioner's Honor Roll 2004-2005
- *ESPN The Magazine* Academic All District II Second Team 2005
- Received Team Strength and Conditioning Award 2004, 05, 07

**Professional Memberships**

- Golden Key Honor Society
- National Society of Collegiate Scholars
- American Society of Mechanical Engineers

**Skills**

- Microsoft Word, Excel, and Powerpoint
- AutoCAD, ProE, SolidWorks, and Comsol
- Matlab
- Functional Knowledge of Spanish