

## Unofficial Transcript and GPA

Your complete academic record is displayed below. Please note that transcripts are not updated in real time; please select 'View grades' under 'Academic records' for the most up-to-date information.  
To order an official transcript select 'Order transcripts' under 'Academic records' from the menu on the left.

Unofficial Transcript as of: 03/29/13 12:30:28 PM

\*\*\*\*\*  
AT THE GRADUATE LEVEL  
\*\*\*\*\*  
ACADEMIC PROGRAM \*\*\*\*\*

School: ENGINEERING & APPLIED SCIENCE  
Division: ENGINEERING & APPLIED SCIENCE PHD  
Degree Program: DOCTOR OF PHILOSOPHY  
Graduate Group: ELECTRICAL & SYSTEMS ENGINEERING

\*\*\*\*\*  
DEGREES AWARDED \*\*\*\*\*

08-13-10 MASTER OF SCIENCE IN ENGINEERING

\*\*\*\*\*  
UNIVERSITY OF PENNSYLVANIA COURSE WORK \*\*\*\*\*

**Fall 2007 ENGINEERING & APPLIED SCIENCE UNDERGRAD**  
ENM 510 FNDATIONS OF ENG MATH I 1.00 CU A+  
Term Statistics: 1.00 CU GPA 4.00  
Cumulative: 1.00 CU GPA 4.00

**Spring 2008 ENGINEERING & APPLIED SCIENCE UNDERGRAD**  
ENM 502 NUMERICAL MTHDS & MODLNG 1.00 CU A  
Term Statistics: 1.00 CU GPA 4.00  
Cumulative: 2.00 CU GPA 4.00

**Fall 2008 ENGINEERING & APPLIED SCIENCE UNDERGRAD**  
MEAM 510 DSGN OF MECHATRONIC SYS 1.00 CU A  
MEAM 520 ROBOTICS & AUTOMATION 1.00 CU A-  
MEAM 535 ADVANCED DYNAMICS 1.00 CU A  
Term Statistics: 3.00 CU GPA 3.90  
Cumulative: 5.00 CU GPA 3.94

**Spring 2009 ENGINEERING & APPLIED SCIENCE UNDERGRAD**  
MEAM 513 MODERN FDBACK CNTRL THRY 1.00 CU A  
MEAM 610 ADVANCED MECHATRONICS 1.00 CU A-  
Term Statistics: 2.00 CU GPA 3.85  
Cumulative: 7.00 CU GPA 3.91

**Fall 2009 ENGINEERING & APPLIED SCIENCE UNDERGRAD**  
ESE 519 REAL TIME EMBEDDED SYS 1.00 CU A+  
Term Statistics: 1.00 CU GPA 4.00  
Cumulative: 8.00 CU GPA 3.93

**Spring 2010 ENGINEERING & APPLIED SCIENCE UNDERGRAD**  
CIS 580 MACHINE PERCEPTION 1.00 CU A  
ESE 899 INDEPENDENT STUDY 1.00 CU A+  
Term Statistics: 2.00 CU GPA 4.00  
Cumulative: 10.00 CU GPA 3.94

**Fall 2010 ENGINEERING & APPLIED SCIENCE PHD**  
EAS 900 RESP CONDUCT RES ENG (0.00) CU S  
ESE 504 INTR TO OPTIMIZE THEORY 1.00 CU B+  
ESE 530 ELMTS PROB THRY 1.00 CU B-  
ESE 617 NON-LINEAR CONTROL THRY 1.00 CU A  
Term Statistics: 3.00 CU GPA 3.33  
Cumulative: 13.00 CU GPA 3.80

**Spring 2011 ENGINEERING & APPLIED SCIENCE PHD**  
ESE 501 NETWORKING THEORY & FUND 1.00 CU C  
ESE 605 MDRN CONVEX OPTIMIZATION 1.00 CU B-  
ESE 899 PHD INDEPENDENT STUDY 1.00 CU A+  
Term Statistics: 3.00 CU GPA 2.90  
Cumulative: 16.00 CU GPA 3.63

**Fall 2011 ENGINEERING & APPLIED SCIENCE PHD**  
CIS 520 MACHINE LEARNING 1.00 CU B+  
ESE 680 SPECIAL TOPCS IN ESE: OPTIMAL CONTROL THEORY 1.00 CU A  
ESE 999 THESIS/DISS RES 1.00 CU S  
Term Statistics: 3.00 CU GPA 3.65  
Cumulative: 19.00 CU GPA 3.63

**Spring 2012 ENGINEERING & APPLIED SCIENCE PHD**  
ESE 999 THESIS/DISS RES 2.00 CU S  
TCOM 512 NETWORKED SYSTEMS 1.00 CU C  
Term Statistics: 3.00 CU GPA 2.00  
Cumulative: 22.00 CU GPA 3.55

**Fall 2012 ENGINEERING & APPLIED SCIENCE PHD**  
ESE 680 SPECIAL TOPCS IN ESE 1.00 CU B+  
ESE 999 THESIS/DISS RES 1.00 CU A+  
STAT 550 MATHEMATICAL STATISTICS 1.00 CU B+  
Term Statistics: 3.00 CU GPA 3.53  
Cumulative: 25.00 CU GPA 3.55

Spring 2013		ENGINEERING & APPLIED SCIENCE PHD			
ESE	576	DIGITAL COMMUNIC SYS	(1.00)	CU	NR
ESE	999	THESIS/DISS RES	(2.00)	CU	NR
Term Statistics:			0.00	CU	
Cumulative:			25.00	CU	GPA 3.55

\* \* \* \* \* NO ENTRIES BEYOND THIS POINT \* \* \* \* \*

---