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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 OPTIMIZ 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	NETWKING 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 * * * * *

AT THE GRADUATE LEVEL IN ENGINEERING

* * * * * ACADEMIC PROGRAM * * * * *

School: ENGINEERING & APPLIED SCIENCE
Division: ENGINEERING & APPLIED SCIENCE MASTERS
Degree Program: MASTER OF SCIENCE IN ENGINEERING
Major: MECHANICAL ENGR & APPLIED MECHANICS

Submatriculation Program
School: ENGINEERING & APPLIED SCIENCE
Division: ENGINEERING & APPLIED SCIENCE UNDERGRAD
Degree Program: BACHELOR OF SCIENCE IN ENGINEERING
Major: MECHANICAL ENGR & APPLIED MECHANICS
Second Major: ELECTRICAL 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

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

AT THE UNDERGRADUATE LEVEL

* * * * * ACADEMIC PROGRAM * * * * *

Admitted From: UNIV NACIONAL DE INGENIER

School: ENGINEERING & APPLIED SCIENCE
Division: ENGINEERING & APPLIED SCIENCE UNDERGRAD
Degree Program: BACHELOR OF SCIENCE IN ENGINEERING
Major: MECHANICAL ENGR & APPLIED MECHANICS
Second Major: ELECTRICAL ENGINEERING

Submatriculation Program
School: ENGINEERING & APPLIED SCIENCE
Division: ENGINEERING & APPLIED SCIENCE MASTERS
Degree Program: MASTER OF SCIENCE IN ENGINEERING
Major: MECHANICAL ENGR & APPLIED MECHANICS

* * * * * DEGREES AWARDED * * * * *

05-17-10 BACHELOR OF SCIENCE IN ENGINEERING
MAGNA CUM LAUDE

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TAU BETA PI

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

Fall 2005 ENGINEERING & APPLIED SCIENCE UNDERGRAD

ECON	001	INTRO ECON MICRO	1.00	CU	A
MATH	241	CALCULUS IV	1.00	CU	A+
MEAM	210	STATICS & STRENGTH OF MAT	1.00	CU	A+
PHYS	151	PRINCIPLES II	1.50	CU	A+
		Term Statistics:	4.50	CU	GPA 4.00
		Cumulative:	4.50	CU	GPA 4.00

Spring 2006 ENGINEERING & APPLIED SCIENCE UNDERGRAD

ECON	002	INTRO ECON MACRO	1.00	CU	B+
LING	001	INTRO TO LINGUISTICS	1.00	CU	B+
MEAM	203	THERMODYNAMICS I	1.00	CU	B+
MEAM	211	ENG MECHANICS: DYNAMICS	1.00	CU	A-
MEAM	247	MEAM LAB I	0.50	CU	A-
		Term Statistics:	4.50	CU	GPA 3.43
		Cumulative:	9.00	CU	GPA 3.72

Fall 2006 ENGINEERING & APPLIED SCIENCE UNDERGRAD

CSE	120	PROG LANG & TECH I	1.00	CU	P
ECON	101	INTERMED MICROECONOMICS	1.00	CU	A-
MEAM	247	MEAM LAB I	0.50	CU	A-
MEAM	302	FLUID MECHANICS	1.00	CU	A
MEAM	347	MEAM LAB II	0.50	CU	A
PHYS	230	PRINCIPLES III:	1.00	CU	B+
		Term Statistics:	5.00	CU	GPA 3.71
		Cumulative:	14.00	CU	GPA 3.72

Spring 2007 ENGINEERING & APPLIED SCIENCE UNDERGRAD

EAS	303	ETH/SOC/PROF RSP FOR ENG	1.00	CU	P
ECON	102	INTERMED MACROECONOMICS	1.00	CU	B
ESE	116	INTRO TO C PROGRAMMING	0.50	CU	A-
MEAM	310	DESIGN OF THRM/FLD SYS	1.00	CU	A-
MEAM	333	HEAT/MASS TRANSFER	1.00	CU	B+
MEAM	347	MEAM LAB II	0.50	CU	B+
		Term Statistics:	5.00	CU	GPA 3.38
		Cumulative:	19.00	CU	GPA 3.64

Summer 2007 ENGINEERING & APPLIED SCIENCE UNDERGRAD

FREN	110	ELEMENTARY FRENCH	1.00	CU	A
FREN	120	ELEMENTARY FRENCH	1.00	CU	A-
		Term Statistics:	2.00	CU	GPA 3.85
		Cumulative:	21.00	CU	GPA 3.66

Fall 2007 ENGINEERING & APPLIED SCIENCE UNDERGRAD

ENM	510	FOUNDATIONS OF ENG MATH I	1.00	CU	A+
ESE	205	ELEC CIR & SYS I LAB	0.50	CU	A
ESE	215	ELEC CIRCUITS & SYS I	1.00	CU	A
ESE	304	OPTIMIZATION OF SYSTEMS	1.00	CU	A-
MEAM	245	INTRO TO FLIGHT	1.00	CU	A
MEAM	321	VIBRATION MECH SYSTEMS	1.00	CU	A+
		Term Statistics:	5.50	CU	GPA 3.95
		Cumulative:	26.50	CU	GPA 3.72

Spring 2008 ENGINEERING & APPLIED SCIENCE UNDERGRAD

ENM	502	NUMERICAL MTHDS & MODLNG	1.00	CU	A
ESE	206	ELEC CIR & SYS II LAB	0.50	CU	B+
ESE	210	INTRO TO DYNAMIC SYSTEMS	1.00	CU	A
ESE	216	ELEC CIRCUITS & SYS II	1.00	CU	A
ESE	218	PHYS/MODELS SEMICON DEV	1.00	CU	A+
ESE	325	SIGNALS & SYSTEMS	1.00	CU	A
		Term Statistics:	5.50	CU	GPA 3.94
		Cumulative:	32.00	CU	GPA 3.76

Fall 2008 ENGINEERING & APPLIED SCIENCE UNDERGRAD

ESE	319	FNDMTL SOLID STATE CRCT	1.50	CU	A-
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:	4.50	CU	GPA 3.83
		Cumulative:	36.50	CU	GPA 3.77

Spring 2009 ENGINEERING & APPLIED SCIENCE UNDERGRAD

ESE	350	EMBED SYS/MICROCONT LAB	1.50	CU	A-
MEAM	513	MODERN FDBACK CNTRL THRY	1.00	CU	A
MEAM	610	ADVANCED MECHATRONICS	1.00	CU	A-
MEAM	620	ROBOTICS	1.00	CU	B-
		Term Statistics:	4.50	CU	GPA 3.54
		Cumulative:	41.00	CU	GPA 3.74

Summer 2009 ENGINEERING & APPLIED SCIENCE UNDERGRAD

FNCE	206	FINANCIAL DERIVATIVES	1.00	CU	B
WRIT	011	WRITING SEM GLOBAL ENGL:			
		TRANSNATIONAL FAMILIES	1.00	CU	A-
		Term Statistics:	2.00	CU	GPA 3.35
		Cumulative:	43.00	CU	GPA 3.73

Fall 2009 ENGINEERING & APPLIED SCIENCE UNDERGRAD

ESE	441	SR DESIGN PROJ I-EE/CTE	1.00	CU	B-
ESE	500	LINEAR SYSTEMS THEORY	1.00	CU	B
ESE	519	REAL TIME EMBEDDED SYS	1.00	CU	A+
		Term Statistics:	3.00	CU	GPA 3.23
		Cumulative:	46.00	CU	GPA 3.69

Spring 2010 ENGINEERING & APPLIED SCIENCE UNDERGRAD

CIS	160	MATH FOUND COMP SCI	1.00	CU	B
CIS	580	MACHINE PERCEPTION	1.00	CU	A
ESE	442	SENIOR DESIGN PROJECT II	1.00	CU	B
ESE	899	INDEPENDENT STUDY	1.00	CU	A+
		Term Statistics:	4.00	CU	GPA 3.50
		Cumulative:	50.00	CU	GPA 3.68
		Equivalent Credit:	13.00	CU	
		Total Credit:	63.00	CU	

***** **PENN EQUIVALENT CREDIT** *****

External Transfer Credit:

UNIV NACIONAL DE INGENIER	CHEM	1	1.00	CU
	CHEM	53	0.50	CU
	CIS	110	1.00	CU
	ESE	301	1.00	CU
	MATH	FREE	1.00	CU
	MATH	FREE	1.00	CU
	MATH	103	1.00	CU
	MATH	114	1.00	CU
	MATH	240	1.00	CU
	MATH	412	1.00	CU
	MEAM	FREE	1.00	CU
	MEAM	215	1.00	CU
	PHYS	50	0.50	CU
	PHYS	93	1.00	CU

Total Penn Equivalent Credit Awarded: 13.00 CU

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