APPLICATION FOR STUDY, RESEARCH OR TEACHING ASSISTANTSHIPS 2013-14

FIELD OF STUDY: Engineering | 3290

Fulbright and related grants administered by the Institute of International Education

1. NAME:		Daniel	Ma		Lofaro			
• 60101	Title	First	Mic	ldle	Last		Suffix	Former Last Name
2. COUNT		roatia/HR/EE DY: Academic En	rinoaring 2200					
		DY: Academic Eng DRTUNITY:	gmeering 3290					
			OUCH (OD AT	TIADCE), I	Duoval University	DA		
		APPLYING THI EGREE LEVEL		-LARGE): ¹ ☐ Master's:	Doctorat			
0. SCREET	VIIVO D	EGREE LEVEL	. □ Bachelor's	□ Master s.	2 Doctorat	С		
GENERAL	INFO	RMATION						
7. CURRENT I	RESIDEN	ICE: Gladwyne City			PA State/Prov	United States		/ Valid until
8. CITIZENSH	IP: (1) U	Jnited States			(2)			
9. CITY/STAT	E OF BIR	RTH: Gladwyne, PA			COU	NTRY OF BIRTH:	United State	es
10. ENTRY TO	U.S. If y	ou were not born in t	he U.S., please indic	ate the date you	entered the U.S.	: /		
11. AGE (as of	11/2012)	: 28	12. GENDER: Ma	nle	13. ARE YO	OU A VETERAN O	R IN THE A	ACTIVE MILITARY? Yes X N
GRANT PU	J RPOS	E INFORMATI	ON					
14. PROJECT	TITLE:	Mobile Manipulator U	Jnmanned Aerial Ve	hicles for IED a	nd Mine Remov	al		
15. ABSTRAC	T OF PRO	OPOSAL:						
U.S. as w the DASI bleeding of UAV that	ell as in Lab in edge res t has dex	vehicles (UAV) a other countries s the U.S. and the search of adding o xterous arms that beneficial to the U	uch as Croatia. T LARICS Lab in lexterous arms to are capable of di	The collabora Croatia has a a UAV. I pa sarming IED	tion between resulted in the ropose to crea	e only ate a		
16. PROPOSEI 1) Dr. Kova 2) Dr. Bogo 3)	D HOST (acic Zden dan Stjepa	COUNTRY AFFILIA ko, co-PI LARICS La an, co-PI LARICS Lal Region for Proposed F	TION (Study/researd b at the University of at the University of	ch applicants on f Zagreb, Croati	a	roatia		
17. CRITICAL	LANGU	AGE ENHANCEME	NT AWARD	Yes	No No	Language to be s	tudied:	
HOST COU	J NTRY	EXPERIENCE						
18. (1) List all t	travel, res	idence, and/or study i	n the country(ies) to	which you are a	pplying.			
(a)		•	• ` `	•				
(b)								
(c)								
(d)								
(2) Do you	currently	reside in or plan an e	xtended visit (more t	han 4 weeks) to	the country(ies)	to which you are ap	oplying?	Yes X No
(3) If yes, in	ndicate pu	irpose and dates you a	are or will be in the c	ountry(ies) to w	hich you are app	olying.		

APPLICANT NAME: Lofaro, Daniel COUNTRY: Croatia/HR/EE

OTHER FOREIGN EXPERIENCE

19. FOREIGN EXPERIENCE (List country, dates, purpose, including all travel/living.)

Primary Purpose	Country(s)	
1) Study Dates (Year) 2008, 2009, 2010, 2011, 2012	South Korea Duration	approx. 2 wk - 3 mth per visit
2) Work/Internship/Volunteer	Turkey	approxi 2 with 5 min per visit
Dates (Year) 08/2010	Duration	3 weeks
3) Study	Portugal	
Dates (Year) 10/2012	Duration	2 weeks
4) Study Dates (Year) 12/2012 (scheduled trip)	Japan Duration	2 weeks
5) Family Visit	Itily, Spain, France, Greece, Mexico, Canada, e	etc.
Dates (Year) 1984-2012	Duration	2-3 weeks per trip

20. EXPERIENCE ABROAD COMMENTS:

The majority of my trips to S. Korea are done on my own. Where trips to Portugal Turkey I were with a group of co-workers. I have become accustom to being able to quickly adapt to my surrounding, learning how to order food, ask for/give direction, find housing etc. in the foreign tongue. Socializing with the people abroad has become second nature, I thoroughly enjoy absorbing other cultures and sharing my own.

EDUCATION

21	. EDUCATION Institutions attended /Country	Dates attended: From/To	Degree received/Expected	Date (mm/yyyy)	Fields of Study/Major
1)	Drexel University United States	09/2008 to 04/2013	Ph.D.	04/2013	Electrical Engr. in Robotics
2)	Drexel University United States	09/2003 to 06/2008	M.S.	06/2008	Electrical Engr in Control Sys
3)	Drexel University United States	09/2003 to 06/2008	B.S.	06/2008	Electrical and Computer Engr.
4)		/ to /		/	
5)		/ to /		/	

22. GRADE POINT AVERAGE: Undergraduate: 3.61 1st Master's: 3.92 2nd Master's: Doctorate: 4.0

EXPERIENCE

23. OCCUPATIONAL EXPERIENCE			
Name and Address of Employer	Type of Work	Dates	Full-time/Part-time
Drexel Autonomous Systems Lab Philadelphia PA United States	Research Assistant	07/2007 to /	⊠ FT □ PT
2) Dragonfly Inv. Philadelphia PA United States	Unmanned Aerial Vehicle Engr.	04/2011 to /	□ FT 🛭 PT
3) Drexel University Philadelphia PA United States	Teaching Assistant	05/2011 to /	□ FT 🛭 PT
4) IEEE (ICRA 2012) Piscataway NJ United States	Intl conf origination, web des	05/2011 to 07/2012	□ FT 🛛 PT
5) NATO (ASI-2012) Cesme XX Turkey	Technical/Workshop Chair	08/2009 to 11/2010	□ FT 🛚 PT
6) FIRST Robotics Villanova PA United States	Mentor and Volunteer	01/2006 to 06/2010	□ FT 🛛 PT
7) Moog Component Group Springfield PA United States	Controls Engr.	08/2005 to 03/2006	🛛 FT 🗆 PT
8) Evaporated Coatings Inc. Willow Grove PA United States	Thin Film Design Engr.	08/2004 to 03/2005	🛛 FT 🗆 PT

APPLICANT NAME: Lofaro, Daniel FIELD OF STUDY: Engineering | 3290

COUNTRY: Croatia/HR/EE

EXTRA CURRICULAR ACTIVITIES AND ACHIEVEMENTS

List your collegiate and/or recent activities/achievements, the year(s), leadership positions held, and a brief explanation, if necessary.

24. ACADEMIC HONORS, FELLOWSHIPS, SCHOLARSHIPS, AWARDS

- (1) NSF-GRFP Honorable Mention 2009
- (2) NSF-EAPSI Fellow 2008
- (3) Lester Kraus Award 2008
- (4) Dean's Fellowship 2008
- (5) Graduated Honors with Distinction 2008
- (6) Graduated Cum Laude 2008

25. EXTRACURRICULAR ACTIVITIES

- (1) IEEE-ICRA 2012 Student Activity Board Event Organizer
- (2) Event Design/Organizer: Senior Design Robot Competition 2009-2011
- (3) Event Design/Organizer: Indoor Aerial Robotics Competition 2008-2011
- (4) Event Design/Organizer: CoE Engineers Week Annual Egg Drop Competition 2007-2011
- (5) IEEE Student Branch Technical Chair: 2006-2008
- (6) Event Design/Organizer: Eita-Kappa-Nu Popsicle Stick Bridge Contest 2008-2009
- (7) Event Design/Organizer: Biannual IEEE Lego Robot Competition 2006-2008
- (8) Judge: NAVY SeaPerch Challenge (regional and national competition) 2009-2011

26. PUBLICATIONS, EXHIBITIONS, PERFORMANCES, PRESENTATIONS

- (1) Publication: Humanoids 2012 (Japan), URAI 2012 (S. Korea), ICCAS 2012 (S. Korea)
- (2) IROS 2012 (Portugal), IASTED 2011 (USA), IROS 2011 (China), EURASIP 2011 (Spain)
- (3) 2x+tutorial Humanoids 2010 (USA), IROS 2010 (Taiwan), FIRA 2009 (S. Korea)
- $(4) \ \ Pres: Maker \ Faire \ 2012 \ (USA), \ Robot \ Pitch-Major \ League \ Baseball \ game \ 2012 \ (USA)$
- (5) NSF/NRF-EAPSI 2011 (USA), Bryn Mawr College 2010 (USA), k-6 demo 2010 (USA),
- (6) Inaugural Student Speaker: DGIST 2010 (S. Korea), Please Touch Museum 2009 (USA)

27. PLANS UPON RETURN TO U.S.

Upon returning to the U.S. I plan on finding a research faculty or tenure-track position at a university (preferentially in the U.S.). I will continue with my small businesses (2x currently in the works). I plan on becoming a chair of an international robotics conference to increase my visibility. I also plan on continuing collaboration with my local and over seas colleagues including my Croatian and Korea partners.

APPLICANT NAME: Lofaro, Daniel FIELD OF STUDY: Engineering 3290

COUNTRY: Croatia/HR/EE

PERSONAL INFORMATION

28. INFORMATION DOCUMENTING U.S. CITIZE	ENSHIP:									
(1) I have a U.S. passport: X Yes No	(2) My U.S. P	assport Number is:	483664806	(3) Expiration Date:	05 / 16 / 2021					
29. IF A NATURALIZED U.S. CITIZEN, ENTER: 1	Naturalization number:									
Date of Naturalization: / /	Place o	of Naturalization:								
30. LIST OTHER GRANTS, SCHOLARSHIPS, OR	AWARDS FOR WHIC	H YOU ARE APPL	YING							
(1)		(3)								
(2)		(4)								
31. FUNDS FROM OTHER SOURCES AVAILABL	E DURING THE GRA	NT PERIOD TO SU	JPPORT GRANTE	E AND/OR DEPENDENT	rs.					
32. LIST STUDY ABROAD SCHOLARSHIPS/GRA	ANTS AWARDED									
(1) Grant Name:		Cor	untry:		Year:					
(2) Grant Name:		Cor	untry:		Year:					
(3) Grant Name:		Cor	untry:		Year:					
33. EMERGENCY CONTACT WHILE ABROAD:										
Full Name:		Relationship to you:								
Street address:			City:	State:	Zip Code:					
Country:	Telephone:	-	Email address:	:						
DEPENDENTS INFORMATION										
		35. NAME O	E CDOLICE:							
34. MARITAL STATUS: Single 36. NO. OF CHILDREN:		a. Ages of chi								
37. DEPENDENT'S FINANCIAL STATEMENT: H	ow many dependents wi									
(1) Est. Maintenance Adult Dependent(s):	\$	ir accompany you a	oroud.							
(2) Est. Maintenance for Child Dependent(s):	\$									
(3) Transportations of Dependent(s):	\$									
(4) TOTAL OF 1-3:	\$									
(5) Allowance for Dependent(s):	\$									
(6) NET TOTAL:	\$									
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STATEMENT BY APPLICANT

By my signature I certify that (1) I have read and understood all instructions accompanying this application (2) To the best of my knowledge, the information provided in my application is true, correct, and complete. (3) I understand that any misrepresentation or omission may be cause for withdrawing a recommended status or grant award. (4) In the event I am awarded a grant: (a) I agree to accept, as a condition of my award, such placement as is made for me in an educational institution abroad; (b) I agree to keep my supervisory agency informed of my whereabouts and academic progress, and to prepare such reports, both progress and terminal, covering my experience while under the grant as may be requested by my supervisory agency; (c) I understand that in case I fail to maintain a satisfactory record, or in case my conduct is considered prejudicial to the best interest of the international educational exchange program, my award may be withdrawn and payments terminated; (d) I understand that all Fulbright program grants are subject to the Policies of the J. William Fulbright Foreign Scholarship Board.

Daniel M. Lofaro 09 / 13 / 2012

Initial Proof:	Initial
Eligibility Check:	Initial

STUDENT RECORD FORM

ID # 3413	Rank	Rating	N MA MW S RM	FW R NR	
APPLICANT NAME: Lofaro Last COUNTRY(S) TO WHICH APPLY	TNG: Croatia/HR/EI	Daniel First		Marc Middle	Suffix
CATEGORY: Academic FIELD OF STUDY: Engineering 32 INSTITUTION APPLYING THROU APPLYING FOR: ☑ Full Study/R PROJECT TITLE: Mobile Manipula	UGH (OR AT-LARGE	ing Assistantship	☐ Travel Only Grant		⊠ PHD
CURRENT RESIDENCE: Gladwyr City MAILING ADDRESS: 1163 Nors Street addred City PRIMARY PHONE #: 610-505-444 PRIMARY EMAIL: dml46@drexel.	ess PA State	19035 Zip Ca	5-1419 United State ode Country	es 505-4445	
Item Rcv'd Institution Trans PhD					
	☑ No Date Ea	US PA arned/Expected: 06/2		DATE OF BIRTH: 04/27/19	984 3) Year:
ETHNICITY American Indian or Native An Asian or Pacific Islander Black/African American (Non Hispanic/Latino		_			

STATEMENT OF GRANT PURPOSE

Daniel M. Lofaro, Croatia, Electrical and Computer Engineering in Robotics Project Title: Mobile Manipulator Unmanned Aerial Vehicles for IED and Mine Removal

Unmanned aerial vehicles (UAV) are at the forefront of robotics research in the U.S. as well as in other countries such as Croatia. The most recent examples of traditional UAVs are the U.S. military's Predator and MAKO fixed-winged drones. The University of Pennsylvania's (UPenn) General Robotics, Automation, Sensing and Perception (GRASP) Lab was among the first use the small and agile quadroptors (four rotor helicopters) to create fast, autonomous and precision flying UAVs. All of the latter UAVs have no dexterous manipulation capabilities. In other words none of the latter are able to pick up a payload and drop it off autonomously in another location. Adding a single degree of freedom (one joint) grasper (manipulator) to the UAV to allow for easy payload pickup and drop off has been shown viable through the efforts of Yale and UPenn (2010-2012). Though these manipulators are able to attach themselves to an object they are fixed to the chasis of the UAV. Thus they rely solely on the UAV to position the manipulator in free space. This is the current state of the art, however it does not allow for dexterous manipulation. The next logical step is the creation of UAVs with the ability to manipulate the environment independent of overall movement of the craft. The collaboration between the Drexel Autonomous Systems Lab (DASL) at Drexel University in Philadelphia, PA (the lab in which I research) and the Laboratory for Robotics and Intelligent Control Systems (LARICS) at the University of Zagreb in Croatia has resulted in the only bleeding edge research of adding dexterous arms (multi joint) to a UAV for world manipulation to date. DASL and LARICS has dubbed UAVs with dexterous arms Mobile Manipulating UAVs or MM-UAVs. MM-UAVs are well suited for applications such as diffusing Improvised Explosive Devices (IED - U.S. priority), disarming land-minds (Croatian priority), collecting sample of materials, performing maintenance on a bridges/buildings, or clearing rubble in hazardous areas (Korpela 2012). It is a mutual understanding between Croatia and the U.S. that this is a key technology to be pursued to increase safety of each countries population. In addition both countries agree that it is important to become more visible in the blooming field of unmanned aerial vehicle technologies. I propose to create a MM-UAV that has the dexterity to manipulate the environment via the use of attached arms/manipulators. A special focus will be put on dexterity for disarming IEDs and land-mines (key goals for the U.S. and Croatia). The latter will be done in conjunction with Dr. Kovacic Zdenko and Dr. Bogdan Stjepan at LARICS. This will show that MM-UAVs have the ability to perform dangerous, dexterous and delicate tasks that are typically preformed by humans (a new and cutting edge portion of UAV and robotic research).

Adding dexterous arms to a UAV creates many challenges; System stability - making sure it can fly; Effect on the dynamics of the system due to arms - what happens when the arms move and pickup/releases objects; Kinematic design - how it is put together; Software, communications, sensors - what controls the UAV and how does it know what it is doing in the world all need to be addressed. The creation of this MM-UAV is a systems integration problem. I propose using parts I am already am skilled with to complete this task. This includes the GAUITM500X Quadcopter, DynamixelTM actuators, my opensoruce control software I originally designed for a complex full-size humanoid robot. (Linux based) and control algorithms from my Ph.D. dissertation specifically designed for bipedal stability while preforming dexterous manipulation (extremely similar to this task except on a legged robot). Having experience with the parts, software and algorithms allows for quick development, shorter time to maturity and greater probability to bring the project to fruition. MM-UAVs are in its infant state as a technology. This gives both Croatia and the U.S. a chance be noted as the first in the field. Thus this project is timely and compelling for the host

Daniel M. Lofaro, Croatia, Electrical and Computer Engineering in Robotics country and the U.S. In addition LARICS is procuring a 3D printer/rapid prototyper (good for construction of the parts for the arms) and has multiple GAUIsTM and other quadcopters available for immediate use. This will help in making my independent research come to throughition.

My proposed time-line revolves around a three tier infrastructure: platform/algorithm development, test/re-design and verification. The first tier (month 1-3) will be dedicated to initial platform and algroithm development as well as getting up and running at LARICS. The second tier (month 4-6) is dedicated to testing and redesign of the platform. Movement between the first and second tier is expected until the final design is created. The final tier (month 7-9) will be a wrap-up period where high quality data will be produced and recorded. The results will be submitted for publication. The highly competitive international robotic conferences IROS and ICRA will the primary targets for publication. The publications will focus on the viability for IED and land mine removal.

Through my experience working directly with members of my host lab at the NATO workshop that I orginized, as well as at DASL, I am confident that useful and constructive communication will be accomplished despite the language difference. To further increase my Croatian language capability and communication I will take advantage of the Croatian language classes available in and around the University of Zagreb.

My experience and education is ideally suited to the completion of this project. My masters thesis focused on control systems and my Ph.D. dissertation (in progress) focusses on stability of a legged robot during manipulation using dexterous arms. Currently my special skills and experience in controls allowed me to work with UAV as a consultant for U.S. UAV R&D teams. My contributions in full-size humanoid robotics shows that I am proficient in the hardware, software, electronics and control required for the complex MM-UAV systems.

Outside of lab I plan on being active in sports and exploring the culinary aspects of Croatia, both in fare and in spirits. I have found that in my past travels to Korea you learn more about a culture when you eat and play with the locals. This is exactly what I plan to do. In addition I am an award winning amateur photographer and I plan on documenting my entire visit through still media. I also plan on submitting my work to well known photography magazines for publication.

My hosts are continuously involved in organizing international conferences. I feel that international networking is key for professional and personal growth. I will help with the conferences, offering my past experiences in workshops and conferences when needed, and in return I will have gain invaluable international networking. This is exceptionally important to me because international collaboration has also become the de facto basis for what sets me apart from other researchers in science and engineering in the U.S. Thus it is crucial that I gain this experience through Fulbright.

In summary by performing research at LARICS in the University of Zagreb the mutual understanding between Croatia and the U.S. will be strengthened because both countries agree that MM-UAVs are a key technology to be pursued to increase safety of their citizens. In addition it is a timely opportunity for each country to become more visible in the blooming field of unmanned aerial vehicle technologies. I have shown a three tiered infrastructure to complete my set goals and I have a plan of action to improve my communications ability when in Croatia. Performing my research at LARICS will allow me to make the logical transition from my dissertation topic to the field of MM-UAVs. Because LARICS is one of two labs in the world currently working on MM-UAVs it is the ideal place for me to become a top researcher in the field. This will not only be beneficial to LARICS and DASL but also to my future career as a prospective faculty in complex control systems and robotics. Receiving the Fulbright to Croatia will open many doors for post-doc and faculty positions at universities and vastly push my personal and professional growth forward.

PERSONAL STATEMENT

Daniel M. Lofaro, Croatia, Electrical and Computer Engineering in Robotics

Prior to 2008 I did not like to travel. I did not see the use in it, and to be honest I was scared or the world being a dangerous place. My foreign language skills at the time were mediocre at best. I was afraid that if I went overseas to do research I would have trouble understanding people and them me. The is the story of my life changed and why I believe that international travel and collaboration is key to personal and professional growth and success. Before I start the story I must inject that: (1) To put it lightly I have a love of all and anything that is robots and will do almost anything to work with them. (2) My advisor Dr. Paul Oh, whom fully and completely trust, had just put me on the National Science Foundation (NSF) project grant PIRE where I am the primary caretaker full-size humanoid robot Jaemi HUBO (a dream come true).

In the fall of 2007 my Dr. Oh pushed me to apply for a NSF-EAPSI fellowship. The NSF-EAPSI would allow me to travel to S. Korea and work in the HUBO Lab at the Korean Advanced Institute of Science and Technology (KAIST). In Dr. Oh's opinion this was a required part of my studies if I were to work with HUBO, thus because of my love of robotics and my position in the NSF-PIRE had to apply. This is because at KAIST I would learn all there is to know about the HUBO robot. In my mind there was one problem with applying to the NSF-EAPSI, I might get it. This would mean I have to go to a dangerous place on the brink of war, S. Korea. I was scared. I ended up receiving the fellowship and reluctantly travelled to S. Korea spent my entire summer of 2008. This was the summer that changed my life in the best of ways!

By the time I arrived in Seoul Intl. airport (Incheon Intl.) I had already come to the realization that I would not be returning to the U.S. until the coming fall. I would have to make the best of a situation that I "thought" was bad. As I toured S. Korea, met the locals and worked with the members of the HUBO Lab I came to the realization that I was the luckiest man in the world. As the days from my arrival turned into weeks I had formed a close Korean friend base. We would play basketball together, go to the bar and norebong (Korean karaoke) and talk about what apparently all young men talk about, girls. I learned that Koreans are not as different from American as I thought. An important lesson that I learned is that the easiest, and most fun, way for a guy learn a new language is to go to dinner with a girl. When you are trying to impress someone (a girl) you really put your mind to learning conversational Korean. This made collaboration with HUBO Lab a breeze. In addition only were my lab-mates very motivated and smart, our skill sets also complement each other. It ended up being the perfect match (also why I believe we are successful).

By the end of my stint in S. Korea I have learned that the world is not as scary and dangerous as I thought. It is a fun, interesting and beautiful place filled with rich culture that I just needed to explore. The bubble that I lived in had been popped and now I am ready to take on the world. I proceeded to go back to S. Korea multiple times for collaboration work, conferences, invited talks and other events with my new found friends and collaborators. Because of my spectacular experience with S. Korea I sought out other research opportunities abroad. One pertinent example was working for the North Atlantic Treaty Organization (NATO). While organizing this workshop I was able to correspond with researchers from all over the world including Prof. Zdenko from University of Zagreb (he taught me Bela, a Croatian card game which I play with my friends in the U.S. to this day). From that relationship a member of Prof. Zdenkos lab, Matko, came to my lab for a Fulbright in 2011-12. Now the logical next step (and my much desired choice) is to return the favor and go to Prof. Zdenko's lab for Fulbright.

International travel and collaboration changed my life for the better. Its importance professionally and socially are immeasurable. When my bubble was popped and I joined the world, I learned and became a better man for it. Fulbright will allow me to continue to learn and grow in ways I can only do now, while I am young, through work and play.

HELP

Display Transcript

10220732 Daniel M. Lofaro Sep 16, 2012 11:45 pm



This is NOT an official transcript. Courses which are in progress may also be included on this transcript.

Institution Credit **Transcript Totals**

Transcript Data

STUDENT INFORMATION **Curriculum Information Current Program**

BS in Electrical Engineering

College of College:

Engineering

Electrical

Engineering, **Major and Department:** Electrical &

Computer Engr

Honors Program, **Major and Department: Honors Program**

DEGREES AWARDED

BS in Electrical Awarded:

Degree Date: Jun 14, 2008 Engineering

Institutional

Honors:

Cum Laude

Departmental

Honors:

With Distinction-Honors Prgm

Curriculum Information

Electrical Engineering Major:

Major Concentration: 5 YR UG Co-op Concentration

INSTITUTION CREDIT -Top-

Term: Fall Quarter 03-04

Major: Still Deciding **Academic Standing: Good Standing**

Subject **Course Level Title** Grade **Credit Quality Start**

Hours Points and

^{***}Transcript type:Unofficial Student Transcript is NOT Official ***

									End Dates
HUM	106	UG	Humanities & Commun I			В	3.000	9.00	
TDEC	110	UG	Math Fndns Engr I			Α	3.000	12.00	
TDEC	111	UG	Phys Fndns Of Engr I			С	3.000	6.00	
TDEC	120	UG	Chem/Biol Fndns Engr I			В	3.000	9.00	
TDEC	130	UG	Engineerin	Engineering Design Lab I			4.000	16.00	
UNIV	101	UG	The Drexel	Experienc	:e	А	1.000	4.00	I
				Attempt Hours	Passed Hours	Earned Hours	GPA Hours	Quality Points	GPA
Current Term:				17.000	17.000	17.000	17.000	56.00	3.29
Cumulative:				17.000	17.000	17.000	17.000	56.00	3.29

Term: Winter Quarter 03-04

Major:Still DecidingAcademic Standing:Good Standing

Subject	Course	Level	Title	Grade	Credit Hours	Start Quality and Points End Dates	
HUM	107	UG	Humanities & Commun II	Α	3.000	12.00	
TDEC	112	UG	Math Fndns Of Engr II	Α	3.000	12.00	
TDEC	113	UG	Phys Fndns Of Engr II	В	3.000	9.00	
TDEC	121	UG	Chem/Biol Fndns Engr II	С	3.000	6.00	
TDEC	131	UG	Engineering Design Lab II	Α	4.000	16.00	
UNIV	101	UG	The Drexel Experience	Α	1.000	4.00 I	

	Attempt Hours		Earned Hours	GPA Hours	Quality Points	GPA
Current Term:	17.000	17.000	17.000	17.000	59.00	3.47
Cumulative:	34.000	34.000	34.000	34.000	115.00	3.38

Term: Spring Quarter 03-04

Major:Still DecidingAcademic Standing:Good StandingAdditional Standing:Dean's List

Subject	Course	Level	Title			Grade	Credit Hours	Quality Points	Start and End Dates
HUM	108	UG	Humanitie	es & Comm	nun III	Α	3.000	12.00	
TDEC	114	UG	Math Fndr	ns Of Engr	III	Α	3.000	12.00	
TDEC	115	UG	Phys Fndr	ns Of Engr	III	В	3.000	9.00	
TDEC	122	UG	Chem/Bio	l Fndns En	gr III	Α	3.000	12.00	
TDEC	132	UG	Engineeri	ng Design	Lab III	Α	4.000	16.00	
				Attempt Hours	Passed Hours	Earned Hours	GPA Hours	Quality Points	GPA
Current Term:				16.000	16.000	16.000	16.000	61.00	3.81
Cumulative:				50.000	50.000	50.000	50.000	176.00	3.52

Unofficial Transcript

Term: Fall Quarter 04-05

Major: Electrical Engineering

Academic Standing: Good Standing

Subject	Course	Level	Title			Grade	Credit Hours	Quality Points	and End Dates	
СООР	201	UG	Co-op Exp Evaporate		s, Inc.	DCU	12.000		l	
				Attempt Hours	Passed Hours	Earned Hours	GPA Hours	Quality Points	GPA	
Current Term:				0.000	0.000	0.000	0.000	0.00	0.00	1
Cumulative:				50.000	50.000	50.000	50.000	176.00	3.52	

Start

Unofficial Transcript

Term: Winter Quarter 04-05

Major: Electrical Engineering

Academic Standing: Good Standing

Subject	Course	Level	Title			Grade	Credit Hours	Quality Points	Start and End Dates
COOP	201	UG	Co-op Exp Evaporate	erience d Coatings	s, Inc.	DCU	12.000		I
				Attempt Hours	Passed Hours		GPA Hours	Quality Points	GPA
Current Term:				0.000	0.000	0.000	0.000	0.00	0.00
Cumulative:				50.000	50.000	50.000	50.000	176.00	3.52

Unofficial Transcript

Term: Spring Quarter 04-05

Major: Electrical Engineering

Academic Standing: Good Standing **Additional Standing:** Dean's List

Subject	Course	Level	Title	Grade	Credit Hours	Start Quality and Points End Dates
ECE	200	UG	Funds Intelligent Systems	Α	3.000	12.00
TDEC	201	UG	Energy I	Α	3.000	12.00
TDEC	211	UG	Materials I	В	3.000	9.00
TDEC	221	UG	Systems I	Α	3.000	12.00
TDEC	231	UG	Eval/Pres Exper Data I	Α	4.000	16.00

	Attempt Hours		Earned Hours	GPA Hours	Quality Points	GPA
Current Term:	16.000	16.000	16.000	16.000	61.00	3.81
Cumulative:	66.000	66.000	66.000	66.000	237.00	3.59

Unofficial Transcript

Term: Summer Quarter 04-05

Major: Electrical Engineering

Academic Standing: Good Standing **Additional Standing:** Dean's List

Subject	Course	Level	Title			Grade	Credit Hours	Quality Points	Start and End Dates
ECE	201	UG	Electric Ci	rcuits		Α	3.000	12.00	
ECEC	490	UG	ST: Progra Engineers	mming of		В	3.000	9.00	
TDEC	202	UG	Energy II			В	3.000	9.00	
TDEC	222	UG	Systems I	I		Α	3.000	12.00	
TDEC	232	UG	Eval/Pres	Exper Data	a II	Α	4.000	16.00	
				Attempt Hours	Passed Hours	Earned Hours	GPA Hours	Quality Points	GPA
Current Term:				16.000	16.000	16.000	16.000	58.00	3.62
Cumulative:				82.000	82.000	82.000	82.000	295.00	3.59

Term: Fall Quarter 05-06

Major: Electrical Engineering

Academic Standing: Good Standing

Subject	Course	Level	Title	Grade	Credit Hours	Quality and Points End Dates
СООР	201	UG	Co-op Experience Moog Components Group Inc	DCU	12.000	0.00
ECEE	302	UG	Electronic Devices	С	4.000	8.00

	Attempt Hours		Earned Hours	GPA Hours	Quality Points	GPA
Current Term:	4.000	4.000	4.000	4.000	8.00	2.00
Cumulative:	86.000	86.000	86.000	86.000	303.00	3.52

Unofficial Transcript

Term: Winter Quarter 05-06

Major: Electrical Engineering

Academic Standing: Good Standing

Subject Course Level Title Grade Credit Quality Start
Hours Points and
End

									Dates
COOP	201	UG	Co-op Exp Moog Com	erience nponents G	Group Inc	DCU	12.000	0.00	
HIST	285	UG	Technolog Perspectiv			Α	3.000	12.00	
				Attempt Hours	Passed Hours	Earned Hours		Quality Points	GPA
Current Term:	ł			3.000	3.000	3.000	3.000	12.00	4.00
Cumulative:				89.000	89.000	89.000	89.000	315.00	3.53

Term: Spring Quarter 05-06

Major: Electrical Engineering

Academic Standing: Good Standing

Subject	Course	e Leve	l Title	Grade	Credit Hours	Start Quality and Points End Dates
ECEL	301	UG	ECE Laboratory I	Α	2.000	8.00
ECES	302	UG	Transform Methods & Filtering	С	4.000	
ECON	211	UG	Principles Econ I (Micro)	Α	3.000	12.00
MATH	290	UG	Linear Modeling for Engineers	В	4.000	12.00
PHIL	221	UG	Epistemology	Α	3.000	12.00

	Attempt Hours		Earned Hours	GPA Hours	Quality Points	GPA
Current Term:	16.000	16.000	16.000	16.000	52.00	3.25
Cumulative:	105.000	105.000	105.000	105.000	367.00	3.49

Unofficial Transcript

Term: Summer Quarter 05-06

Major: Electrical Engineering

Subject	Course	e Level	Title	Grade	Credit Hours	Start Quality and Points End Dates
ECEC	304	UG	Design with Microcontrollers	Α	4.000	16.00

ECEL	302	UG	ECE Laboratory II	Α	2.000	8.00
ECES	304	UG	Dynamic Systems and Stability	В	4.000	12.00
MATH	291	UG	Complex & Vector Analy for Eng	Α	4.000	16.00
PHIL	315	UG	Engineering Ethics	В	3.000	9.00

	Attempt Hours		Earned Hours	GPA Hours	Quality Points	GPA
Current Term:	17.000	17.000	17.000	17.000	61.00	3.58
Cumulative:	122.000	122.000	122.000	122.000	428.00	3.50

Term: Fall Quarter 06-07

Major: Electrical Engineering

Academic Standing: Good Standing

Subject	Course	e Leve	Title	Grade	Credit Hours	Start Quality and Points End Dates
ECEL	303	UG	ECE Laboratory III	Α	2.000	8.00
ECES	356	UG	Theory of Control	A+	4.000	16.00
ECES	444	UG	Systems and Control I	A+	4.000	16.00
ECES	521	UG	Probability & Random Variables	B-	3.000	8.01
ENGR	361	UG	Stat Analysis of Engr Systems	B-	3.000	8.01
HNRS	201	UG	ST: Ballroom Dancing	Α	3.000	12.00

	Attempt Hours		Earned Hours	GPA Hours	Quality Points	GPA
Current Term:	19.000	19.000	19.000	19.000	68.02	3.58
Cumulative:	141.000	141.000	141.000	141.000	496.02	3.51

Unofficial Transcript

Term: Winter Quarter 06-07

Major: Electrical Engineering

Subject	Course	Level	Title			Grade	Credit Hours	Quality Points	Start and End Dates
ECEL	304	UG	ECE Labor	atory IV		A+	2.000	8.00	
ECEP	352	UG	Elec Motor	r Control Pr	rinciples	B+	4.000	13.32	
ECES	445	UG	Systems a	and Control	II	Α	4.000	16.00	
ECES	522	UG	Random P Analysis	rocess & S	pec	B-	3.000	8.01	
EGMT	504	UG	Communio	cations		W	3.000	0.00	
				Attempt Hours	Passed Hours	Earned Hours	GPA Hours	Quality Points	GPA
Current Term:				16.000	13.000	13.000	13.000	45.33	3.48
Cumulative:				157.000	154.000	154.000	154.000	541.35	3.51

Term: Spring Quarter 06-07

Major: Electrical Engineering

Academic Standing: Good Standing **Additional Standing:** Dean's List

Additional Sta	maing:		Dean's Lis	o L					
Subject	Course	Level	Title			Grade	Credit Hours	Quality Points	Start and End Dates
CS	511	UG	Robot Lab			A+	3.000	12.00	
ECES	352	UG	Intro Digit	al Signal P	rocess	Α	4.000	16.00	
ECES	446	UG	Systems a	nd Contro	HII	Α	4.000	16.00	
HIST	236	UG	World War	· II		B+	3.000	9.99	
MATH	221	UG	Discrete M	lathematic	:S	A-	3.000	11.01	
				Attempt Hours	Passed Hours	Earned Hours	GPA Hours	Quality Points	GPA

	Hours	Hours		GPA Hours	Points	GPA
Current Term:	17.000	17.000	17.000	17.000	65.00	3.82
Cumulative:	174.000	171.000	171.000	171.000	606.35	3.54

Term: Summer Quarter 06-07

Major: Electrical Engineering

Academic Standing: Good Standing **Additional Standing:** Dean's List

Subject	Course	Level	Title		Grade	Credit Hours	Quality Points	Start and End Dates
ECEE	352	UG	Analog Electro	nics	Α	4.000	16.00	
ECES	306	UG	Intro Modulatio	on & Coding	A-	4.000	14.68	
ECES	358	UG	Computer Con	trol Systems	Α	4.000	16.00	
HIST	243	UG	Germany & W	orld of Hitler	Α	3.000	12.00	
MEM	255	UG	Introduction to	Controls	A+	4.000	16.00	
			Δ++	emnt Passed	Farned	GPΔ	Quality	

	Attempt Hours		Earned Hours		Quality Points	GPA
Current Term:	19.000	19.000	19.000	19.000	74.68	3.93
Cumulative:	193.000	190.000	190.000	190.000	681.03	3.58

Unofficial Transcript

Term: Fall Quarter 07-08

Major: Electrical Engineering

Subject	Course	Level	Title	Grade	Credit Hours	Quality a Points E	tart nd nd ates
ECEE	451	UG	Electroacoustics	B+	3.000	9.99	
ECES	511	UG	Fundamentals of Systems I	B+	3.000	9.99	
ECES	817	UG	Non-Linear Control Sys	Α	3.000	12.00	
ECES	898	UG	Master's Thesis Sys Engr	Α	3.000	12.00	1
MEM	800	UG	ST: Autonom Vehicle Control	ΙA	3.000	12.00	I

	Attempt Hours	Passed Hours	Earned Hours	GPA Hours	Quality Points	GPA
Current Term:	15.000	15.000	15.000	15.000	55.98	3.73

208.000 205.000 205.000 205.000 737.01

3.59

Unofficial Transcript

Cumulative:

Term: Winter Quarter 07-08

Major: Electrical Engineering

Academic Standing: Good Standing

	- 3			- 3					
Subject	Course	Level	Title			Grade	Credit Hours	Quality Points	Start and End Dates
ECES	512	UG	Fundame	ntals of Sys	stems II	B-	3.000	8.01	
ECES	690	UG	ST: Biolog	ic Sig Proc	essing I	Α	3.000	12.00	
ECES	818	UG	Mach Lea Control	rning/Adap	tive	Α	3.000	12.00	
ECES	898	UG	Master's 1	Γhesis Sys	Engr	Α	4.000	16.00	1
				Attempt Hours	Passed Hours	Earned Hours	GPA Hours	Quality Points	GPA

	Attempt Hours		Earned Hours		Quality Points	GPA
Current Term:	13.000	13.000	13.000	13.000	48.01	3.69
Cumulative:	221.000	218.000	218.000	218.000	785.02	3.60

Unofficial Transcript

Term: Spring Quarter 07-08

Major: Electrical Engineering

Academic Standing: Good Standing **Additional Standing:** Dean's List

Subject	Cours	e Leve	l Title	Grade	Credit Hours	Quality	Start and End Dates
ECES	513	UG	Fundamentals of Systems III	A-	3.000	11.01	
ECES	651	UG	Intelligent Control	A-	3.000	11.01	
ECES	898	UG	Master's Thesis Sys Engr	Α	3.000	12.00	1
MEM	800	UG	ST:Autonom Vehicle Control I	I A+	3.000	12.00	1

Attempt	Passed	Earned	GPA	Quality Points
Hours	Hours	Hours	Hours	Points

Current Term:	12.000	12.000	12.000	12.000	46.02	3.83
Cumulative:	233.000	230.000	230.000	230.000	831.04	3.61

TRANSCRIPT TOTALS (UNDERGRADUATE QUARTER) -Top-							
	Attempt Hours	Passed Hours	Earned Hours		Quality Points	GPA	
Total Institution:	233.000	230.000	230.000	230.000	831.04		3.61
Total Transfer:	0.000	0.000	0.000	0.000	0.00		0.00
Overall:	233.000	230.000	230.000	230.000	831.04		3.61

Unofficial Transcript

[Overall Financial Aid Status | Financial Aid Eligibility Menu]

RELEASE: 8.4.1

HELP

Display Transcript

10220732 Daniel M. Lofaro Sep 16, 2012 11:50 pm



This is NOT an official transcript. Courses which are in progress may also be included on this transcript.

Transcript Totals Institution Credit

Transcript Data

STUDENT INFORMATION

Curriculum Information

Current Program

Doctor of Philosophy

College of College:

Engineering Electrical

Engineering, **Major and Department:**

Electrical &

Computer Engr

DEGREES AWARDED

Awarded MS in Electrical **Degree Date:**

Jun 14, 2008 Engineering

Curriculum Information

Major: **Electrical Engineering**

INSTITUTION CREDIT -Top-

Term: Spring Quarter 07-08

Major: **Electrical Engineering**

Academic Standing: Good Standing Additional Standing: Dean's List

Subject	Course	Level	Title	Grade	Credit Hours	Quality and Points End Dates
ECES	513	GR	Fundamentals of Systems III	A-	3.000	11.01
ECES	651	GR	Intelligent Control	A-	3.000	11.01

^{***}Transcript type:Unofficial Student Transcript is NOT Official ***

ECES	898	GR	Master's T	hesis Sys I	Engr	А	3.000	12.00	I
MEM	800	GR		m Vehicle	•	A+	3.000	12.00	ı
			"	Attempt Hours	Passed Hours	Earned Hours	GPA Hours	Quality Points	GPA
Current T	erm:			12.000	12.000	12.000	12.000	46.02	3.83
Cumulati	ve:			12.000	12.000	12.000	12.000	46.02	3.83
Unofficial Tr	anscript								
Term: Fall Major:	Quarter	08-09	Electrical	Engineerin	~				
Academic	Standiı	ng:	Good Star	_	g				
Subject	Course	Lovel	Title			Grade	Credit	Quality	Start and
Subject	Course	Levei	ritie			Grade	Hours	Points	End Dates
ECES	697	GR	Research	In Systems	Engr	A	6.000	24.00	
MEM	666	GR	Advanced	D	_	Б.	3.000	9.99	
1*1 L 1*1	000	OI V	Auvanceu	Dynamics		B+			
I*IL[*	000	GIV	Auvanceu	Dynamics Attempt			GPA	Quality	CDA
1*1 - 1*1	000	GIV.	Advanced	Attempt Hours	Passed Hours	Earned Hours	Hours	Quality Points	
Current T		OK .	Advanced	Attempt	Passed	Earned Hours	Hours	Points	
	erm:	dix	Advanced	Attempt Hours	Passed Hours	Earned Hours 9.000	Hours 9.000	33.99	
Current 1	erm:	dix	Advanced	Attempt Hours 9.000	Passed Hours 9.000	Earned Hours 9.000	Hours 9.000	33.99	3.77
Current T Cumulati Unofficial Tr	erm: ve:			Attempt Hours 9.000	Passed Hours 9.000	Earned Hours 9.000	Hours 9.000	33.99	3.77
Current T	erm: ve:		09	Attempt Hours 9.000	Passed Hours 9.000 21.000	Earned Hours 9.000	Hours 9.000	33.99	3.77
Current T Cumulation Unofficial Tr Term: Win	erm: ve: anscript	ter 08-	09	Attempt Hours 9.000 21.000 Engineerin	Passed Hours 9.000 21.000	Earned Hours 9.000	Hours 9.000	33.99	3.77 3.81
Current T Cumulati Unofficial Tr Term: Win Major: Academic	Term: ve: anscript oter Quar C Standing	ter 08- ng:	<mark>09</mark> Electrical Good Star	Attempt Hours 9.000 21.000 Engineerin	Passed Hours 9.000 21.000	Earned Hours 9.000 21.000	9.000 21.000 Credit	33.99 80.01 Quality	3.77 3.81 Start and
Current T Cumulati Unofficial Tr Term: Win Major:	erm: ve: anscript	ter 08- ng:	<mark>09</mark> Electrical Good Star	Attempt Hours 9.000 21.000 Engineerin	Passed Hours 9.000 21.000	Earned Hours 9.000	9.000 21.000	33.99 80.01	3.77 3.81 Start
Current T Cumulati Unofficial Tr Term: Win Major: Academic	Term: ve: anscript oter Quar C Standing	ter 08- ng:	09 Electrical Good Star Title	Attempt Hours 9.000 21.000 Engineerin	Passed Hours 9.000 21.000	Earned Hours 9.000 21.000	9.000 21.000 Credit	33.99 80.01 Quality Points	3.77 3.81 Start and End
Current T Cumulati Unofficial Tr Term: Win Major: Academic	Term: ve: canscript oter Quar c Standin Course	ter 08- ng: Level	09 Electrical Good Star Title Research	Attempt Hours 9.000 21.000 Engineering	Passed Hours 9.000 21.000	Earned Hours 9.000 21.000 Grade	9.000 21.000 Credit Hours	33.99 80.01 Quality Points 24.00	3.77 3.81 Start and End Dates
Current T Cumulati Unofficial Tr Term: Win Major: Academic Subject ECES	Term: ve: canscript cter Quar c Standin Course	ter 08- ng: Level	09 Electrical Good Star Title Research	Attempt Hours 9.000 21.000 Engineering	Passed Hours 9.000 21.000 g	Earned Hours 9.000 21.000 Grade A B	9.000 21.000 Credit Hours 6.000 3.000	33.99 80.01 Quality Points 24.00	3.77 3.81 Start and End Dates

Cumulative:

30.000 30.000 30.000 30.000 113.01

3.76

Term: Spring Quarter 08-09

Major: Electrical Engineering

Academic Standing: Good Standing

Subject	Course	Level	Title	Grade	Credit Hours	Quality Points	Start and End Dates
FCFS	697	GR	Research In Systems Engr	Α	9.000	36.00)

	Attempt Hours	Passed Hours	Earned Hours	GPA Hours	Quality Points	GPA
Current Term:	9.000	9.000	9.000	9.000	36.00	4.00
Cumulative:	39.000	39.000	39.000	39.000	149.01	3.82

Unofficial Transcript

Term: Summer Quarter 08-09

Major: Electrical Engineering

Academic Standing: Good Standing

Subject	Course	Level	Title	Grade	Credit Hours	Quality and Points End Dates
ECES	697	GR	Research In Systems Engr	Α	3.000	12.00

	Attempt Hours	Passed Hours	Earned Hours	GPA Hours	Quality Points	GPA
Current Term:	3.000	3.000	3.000	3.000	12.00	4.00
Cumulative:	42.000	42.000	42.000	42.000	161.01	3.83

Unofficial Transcript

Term: Fall Quarter 09-10

Major: Electrical Engineering

Subject	Course	Level	Title	Grade	Credit Hours	Start Quality and Points End Dates
CS	583	GR	Intro to Computer Vision	Α	3.000	12.00

6.000 0.00 ECES 697 GR Research In Systems Engr INC Quality GPA Attempt Passed Earned GPA **Hours Hours Hours Points** Hours 9.000 3.000 3.000 3.000 12.00 4.00 **Current Term:** 51.000 45.000 45.000 45.000 173.01 3.84 **Cumulative: Unofficial Transcript Term: Winter Quarter 09-10** Major: **Electrical Engineering Academic Standing: Good Standing** Start Quality and Credit **Subject Course Level Title** Grade **Points End Dates** 9.000 0.00 **ECES** 697 GR Research In Systems Engr INC Quality GPA Attempt Passed Earned GPA Hours **Hours Hours Hours Points** 9.000 0.000 0.000 0.000 0.00 0.00 **Current Term:** 60.000 45.000 45.000 45.000 173.01 3.84 **Cumulative: Unofficial Transcript Term: Spring Quarter 09-10** Major: **Electrical Engineering Academic Standing: Good Standing Quality and** Credit **Subject Course Level Title** Grade Hours **Points End Dates** 9.000 0.00 **ECES** 697 GR Research In Systems Engr INC Quality GPA Attempt Passed Earned GPA Hours **Hours Hours Hours Points** 9.000 0.000 0.000 0.000 0.00 0.00 **Current Term:**

69.000 45.000 45.000 45.000 173.01

3.84

Unofficial Transcript

Cumulative:

Term: Fall Quarter 10-11

Major: Electrical Engineering

Academic	: Standiı	ng:	Good Star	nding					
Subject	Course	Level	Title			Grade	Credit Hours	Quality Points	Start and End Dates
ECES	697	GR	Research	In Systems	s Engr	Α	9.000	36.00	
				Attempt Hours	Passed Hours		GPA Hours	Quality Points	GPA
Current T	Term:			9.000	9.000	9.000	9.000	36.00	4.00
Cumulati	ve:			78.000	54.000	54.000	54.000	209.01	3.87
Unofficial Tr	anscript								
Term: Win Major:			Electrical	Engineerir	ng				
Academic	: Standii	ng:	Good Star	nding					Start
Subject	Course	Level	Title			Grade	Credit Hours	Quality Points	and End Dates
ECES	697	GR	Research	In Systems	s Engr	Α	9.000	36.00	
				Attempt Hours	Passed Hours	Earned Hours	GPA Hours	Quality Points	GPA
Current T	Term:			9.000	9.000	9.000	9.000	36.00	4.00
Cumulati	ve:			87.000	63.000	63.000	63.000	245.01	3.88
Unofficial Tr	anscript								
Term: Spr	ing Quar	ter 10-	11						
Major: Academic	: Standiı	ng:	Electrical Good Star	Engineerir nding	ng				
Subject	Course	Level	Title			Grade	Credit Hours	Quality Points	Start and End Dates
ECES	697	GR	Research	In Systems	s Engr	Α	9.000	36.00	
				Attempt Hours	Passed Hours	Earned Hours	GPA Hours	Quality Points	GPA
Current T	Term:			9.000	9.000	9.000	9.000	36.00	4.00
Cumulati	ve:			96.000	72.000	72.000	72.000	281.01	3.90

Term: Summer C	Duarter 10-11
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Major: Electrical Engineering

Academic Standing: Good Standing

Subject	Course	Level	Title			Grade	Credit Hours	Quality Points	Start and End Dates
ECES	697	GR	Research	In Systems	s Engr	Α	9.000	36.00	
				Attempt Hours		Earned Hours	GPA Hours	Quality Points	GPA
Current T	erm:			9.000	9.000	9.000	9.000	36.00	4.00
Cumulativ	ve:			105.000	81.000	81.000	81.000	317.01	3.91

Unofficial Transcript

Term: Fall Quarter 11-12

Major: Electrical Engineering

Academic Standing: Good Standing

Subject	Course	Level	Title	Grade	Credit Hours	Quality Points	Start and End Dates
ECES	697	GR	Research In Systems Engr	Α	9.000	36.00	

	Attempt Hours					GPA
Current Term:	9.000	9.000	9.000	9.000	36.00	4.00
Cumulative:	114.000	90.000	90.000	90.000	353.01	3.92

Unofficial Transcript

		_	
Tarm	Spring	ı Ouartı	er 11-12

Major: Electrical Engineering

Subject	Course	Level	Title	Grade	Credit Hours	Start Quality and Points End Dates
ECES	697	GR	Research In Systems Engr	Α	9.000	36.00

Attempt Hours	Passed	Earned	GPA	Quality	CDA
Hours	Hours	Hours	Hours	Points	GPA

Current Term:	9.000	9.000	9.000	9.000	36.00	4.00
Cumulative:	123.000	99.000	99.000	99.000	389.01	3.92

TRANSCRIPT TOTALS (GRADUATE QUARTER) -Top-								
	Attempt Hours	Passed Hours	Earned Hours	GPA Hours	Quality Points	GPA		
Total Institution:	123.000	99.000	99.000	99.000	389.01	3.92		
Total Transfer:	0.000	0.000	0.000	0.000	0.00	0.00		
Overall:	123.000	99.000	99.000	99.000	389.01	3.92		

Unofficial Transcript

[Overall Financial Aid Status | Financial Aid Eligibility Menu]

RELEASE: 8.4.1