Project Title	Agency	PI-CoPI(s)	Start Date	End Date	\$\$ Funded
International Research Experience for Students in Photovoltaic Based Power Electronics Conversion Systems	NSF	Batarseh	05/15/07	12/31/11	\$137,033
US-TAMUQ - Workshop: Recent Research and Educational Activities in Power Electronics and Drives	NSF	Batarseh	08/01/08	12/31/12	\$49,370
US-UAE Workshop: Energy Developments, Addressing the Need of the Energy Industry,n Abu Dhabi, UAE	NSF	Batarseh	01/01/11	12/31/11	\$48,000
Development of Modular Interactive Learning and Assessing Tools for Electrical Circuit Core Courses for Engineering Students	NSF	Batarseh Shen Sundaram Wu, Annie	07/01/09	06/30/12	\$199,994
Photovoltaic Power Electronics Research nitiative (PERI) for Developing Low Cost, JItra-compact, Three-ohase Micro nverters or "AC Bricks"	. 0,	Batarseh Wu, Thomas Shen	09/01/10	12/31/12	\$700,000
Non-Linear Characterization of the Stretch Reflex Arc and Its Neuromodulation	National Institutes of Health	Behal Hickman Molnar	04/01/09	06/30/12	\$255,937
RCTA - H10 Dynamics of Operating withing Social Environments (PO Task# 034)	General Dynamics	Boloni	04/28/11	10/31/11	\$14,727
Trust Models for Vulnerability Assessment in Wireless Cyberspace	State University of New York - Institute of Technology	Chatterjee	08/01/11	12/31/11	\$30,000
PROFIT: Pictures Represent Opportunities for Inspiration in Technology	NSF	da Vitoria Lobo Dixon Gresham Shah	12/01/07	11/30/12	\$1,200,000
Three-Dimensional Site Modeling: Model Generation from Laser Scanned Data	Boeing Company	da Vitoria Lobo Shah	01/01/02	12/31/12	\$30,000

IH: Scalable Programming Techniques for the New Multicore Architecture HPC	UCF/In House	Dechev	05/01/11	05/01/12	\$7,500
Modeling and Tracking Human Activities in Sports Events	Electronic Arts	Foroosh	05/01/08	04/30/13	\$30,000
Student Support Services for SCC Advance	Seminole Community College	Georgiopoulos	02/24/10	12/31/11	\$15,000
New and Emerging Research/Subsidized Employment for Undergraduates	Workforce Central Florida	Georgiopoulos Aldarondo-Jeffries Ford Parkinson	08/23/10	06/30/12	\$100,000
STEM Persistence and Female Mentorship Program for Undergarduates	Workforce Central Florida	Georgiopoulos Dagley Parkinson Young	08/23/10	06/30/12	\$147,000
New and Emerging Research/Subsidized Employment for Undergraduates	Workforce Central Florida	Georgiopoulos Aldarondo-Jeffries Ford Parkinson Dressler Herold	08/23/10	06/30/12	\$600,000
UCF STEP Pathways to STEM: From Promise to Prominence	NSF	Georgiopoulos daVitoria Lobo Richie Turgut et al	01/01/06	12/31/11	\$1,797,360
Young Entrepreneur and Scholar (YES) Scholarship Program	NSF	Georgiopoulos Ducharme Massi Young	09/01/08	08/31/13	\$600,000
Collaborative Research: SCC Advance: Strengthening the Foundation of STEM Education for Seminole Community College	NSF	Georgiopoulos Geiger Hagen Morrison-Shetlar Parkinson Young	01/01/09	12/31/11	\$50,000

Collaborative Research: REU Site: Advances in Machine Learning Theory and Applications (AMALTHEA)	NSF	Georgiopoulos Morrison-Shetlar Wahid	03/01/07	02/29/12	\$138,750
STEM Research/Subsidized Employment for Undergraduates		Georgiopoulos Parkinson	08/23/10	06/30/12	\$130,850
STEM Persistence and Female Mentorship Program for Undergarduates	Workforce Central Florida	Georgiopoulos Young	08/23/10	06/30/12	\$110,500
Linguistic Preprocessing and Tagging for Problem Report Trend Analysis	NASA JSC	Gomez	03/12/08	08/15/12	\$600,000
CAREER: Next-Generation Ultra-Low- Cost Phased Arrays	NSF	Gong	08/01/09	07/31/14	\$400,000
FCAAP Online, In-Situ Monitoring Combustion Turbine Wireless Passive Ceramic Sensors	US Dept. of Energy	Gong Xu An	10/01/09	12/31/12	\$811,193
Collaborative Research: Towards Lifelike Computer Interfaces that Learn	NSF	Gonzalez, A. DeMara	02/15/07	01/31/13	\$584,343
REU Supplement to Collaborative Research: Towards Lifelike Computer Interfaces that Learn	NSF	Gonzalez, A. DeMara	06/05/08	01/31/13	\$42,000
Supplement to Collaborative Research: Towards Lifelike Computer Interfaces that Learn	NSF	Gonzalez, A. DeMara	09/18/09	01/31/13	\$44,500
Dependable Systems International Research and Educational Experience (DeSIRE2)	Embry-Riddle Aeronautical University	Gonzalez, A. Stebbins	09/01/08	08/31/12	\$56,200
Undergraduate Computer Security Course Enhancement	NSF	Guha, R. Bassiouni Guha, A.	05/15/09	04/30/12	\$150,000
BRIGE: Computational Identification of Gene Regulatory Netwroks in Microalgae	NSF	Hu	08/15/11	07/13/13	\$174,654
NeTS: Small: Scalable Wireless Mesh Network Technology at the Edge for Efficient Mobile Video Data Access on Demand	NSF	Hua	08/01/09	07/31/12	\$420,000
EAGER: Efficient Control and Transmission of Digital Puppetry	NSF	Hughes	09/01/10	08/31/12	\$199,754

TeachME	Old Dominion University Research Foundation	Dieker Hynes Hughes	07/01/10	06/30/12	\$7,998
TeachME	Western Michigan University	Dieker Hynes Hughes	01/01/11	12/31/11	\$8,000
TeachME Classroom Sessions and Software Program	West Virginia University	Dieker Hynes Hughes	09/01/10	07/31/12	\$7,998
NCMR Scholarships: EAGER: Efficient Control and Transmission of Digital Puppetry	NSF	Hughes Tappen	09/01/10	08/31/12	\$20,000
SHB: Small: Collaborative Research: Reducing Alcohol Use Among College Students using Virtual Role Playing	NSF	Hughes Hall	09/01/11	08/31/14	\$257,721
Improved Aquarius Salinity Retrievals using Auxillary Products from the Microwave Radiometer	NASA	Jones	10/01/09	09/30/13	\$339,143
Inter-Satellite Radiometric Calibration for the GPM Constellation	NASA	Jones	03/18/10	03/17/13	\$300,195
Improved Active/Passive Ocean Vector Wind Retrievals	NASA	Jones	07/22/10	07/21/14	\$209,557
Observations of Ocean Surface Wind Speed and Rain Rate with the Hurricane Imaging Radiometer (HIRAD)	NASA Marshall Space Flight Center	Jones	02/04/11	02/03/16	\$102,000
Career: Mathematical Sketching: Pen- based Tools for Conceptual Understanding in Mathematics and Physics	NSF	LaViola	05/01/09	04/30/12	\$270,897
REU Supplement to: Major: Enhancing Creativity and Authoring in STEM Education-Based Virtual Worlds through Concept-Oriented Design	NSF	LaViola	07/01/09	06/30/12	\$24,000
SHF: Large: A Working Set Approach to Integrated Development Environments	Brown University	LaViola	08/01/10	07/31/12	\$104,380

Major: Enhancing Creativity and Authoring in STEM Education-Based Virtual Worlds through Concept-Oriented Design	NSF	LaViola Bowers Cannon-Bowers	07/01/09	06/30/12	\$755,845
SHF: Small: Collaborative Research: Specification and Verification of Safety Critical Java	NSF	Leavens	07/15/09	06/30/12	\$249,981
SHF: Small: Collaborative Research: Specification Language Foundations for Modular Reasoning	NSF	Leavens	08/01/09	07/31/12	\$249,981
SHF: Small: Collaborative Research: Balancing Expressiveness and Modular Reasoning for Aspect-Oriented Programming	NSF	Leavens	08/15/10	07/31/12	\$241,029
Failure Criteria Metric under ESD Stress Conditions	Analog Devices	Liou	05/01/07	08/31/14	\$675,000
Joint Korea-USA Project on the Development of Advanced Electrostatic Discharge (ESD) Protection Solutions for Nanowire-Based Integrated Circuits	Pohang University of Science and Technology	Liou	03/01/10	12/31/11	\$60,000
Design, Characterization, and Optimization of High Voltage (20 to 70 volts) Electrostatic Discharge (ESD) Protection Elements for Power Management Integrated Circuits	Intersil Corp.	Liou	05/01/11	04/30/13	\$40,000
RF-Development of Standardized Methodology to Correlate System ESD Pulses at Connector to ESD Pulses at IC to Enable IC design	National Semiconductor Corp.	Liou	09/01/11	08/31/12	\$60,000
OFC Saw tag/sensor	NASA Langley Research Center	Malocha	09/01/08	08/31/12	\$18,977
Wireless, Passive Encoded Saw Sensors and Communication Links - Phase II	Mnemonics, Inc.	Malocha	07/01/09	12/31/11	\$225,000
SAW Sensor Parameter Detection Using Coherence Techniques	Florida Space Grant Consortium	Malocha	05/02/11	05/02/12	\$15,000

NASA STTR Phase 1: Wireless SAW Sensor Strain Gage & Integrated Interrogator Design	Mnemonics, Inc.	Malocha	02/28/11	05/31/12	\$18,000
Wireless, Passive Strain Sensor for Space Applications - GSRP: James Humphries	NASA	Malocha	08/22/11	08/21/12	\$30,000
I-4: Wireless SAW Interrogator and Sensor System	UCF/I4	Malocha	07/01/11	06/30/12	\$10,000
NASA SBIR Phase I: Wireless SAW Interrogator and Sensor System	Mnemonics, Inc.	Malocha	02/28/11	12/31/11	\$30,647
NASA SBIR Phase I: High-Temperature SAW Sensor Development	Krystal Engineering LLC	Malocha	05/01/11	10/31/11	\$17,000
ARRA: Using Mixed Reality to Build Peer Resistance Skills in Latina Middle Schoolers	National Institutes of Health	Norris Hughes	03/15/10	02/29/12	\$132,842
Computer Programming Team	Eustace-Kwan Family Foundation	Orooji Batarseh	08/01/08	04/15/12	\$293,774
STEM Research/Subsidized Employment for Undergraduates	Workforce Central Florida	Parkinson Jeffries Georgiopoulos	08/29/11	06/30/12	\$274,500
DoD STTR Phase 2: Innovative Application of Urban ISR Imagery for High Fidelity Training Devices	CG2, Inc.	Pattanaik	08/11/11	02/24/12	\$54,000
CGV: Medium: Collaborative Research: A Unified Approach to Material Appearance Modeling	NSF	Pattanaik	06/01/11	05/31/12	\$101,212
I4 Match to Petra Solar: Grid Stability with Distributed Generations and Varying Topologies	UCF/I4	Qu	09/14/09	06/30/12	\$97,192
Grid Stability with Distributed Generations and Varying Topologies- Phase II	Petra Solar	Qu	02/01/10	05/30/13	\$480,000
University of Central Florida and Harris Corporation Joint Senior Design Wave Energy Projects	Florida Energy Systems Consortium	Qu	02/23/11	02/22/12	\$5,000

I-4: Modeling and Control of Unmanned Aerial Vehicles	UCF/I4	Qu	07/01/11	06/30/12	\$13,332
Modeling and Control of Unmanned Aerial Vehicles	L3 Communications	Qu	07/01/11	12/31/11	\$40,000
I-4: Unmanned Aircraft System Operations in National Air Space: A Feasibility Study at Daytona Beach International Airport	UCF/I4	Qu	07/01/11	06/30/12	\$25,000
ARRA: Computer Assisted Identification and Volumetric Analysis of Enhancing Components	National Institutes of Health	Shah	05/01/09	04/30/12	\$355,763
Taming Crowded Visual Scenes	US Army	Shah	05/12/09	05/11/12	\$371,469
Taming Crowded Visual Scenes	US Army	Shah	05/12/09	05/11/12	\$8,700
Evaluation of Tracking Algorithms on ISIS Video Data for the Wide Area Surveillance Project		Shah	09/14/09	02/28/12	\$340,398
Consumer Video Indexing	Eastman Kodak	Shah	10/01/06	04/15/13	\$100,000
I4 Match to Harris: Automated Video Processing Research - Option Year 1	UCF/I4	Shah	07/01/10	06/30/12	\$60,000
Computer Vision Algorithms for Crowd Analysis and Imaging through Turbulence	EOIR Technologies	Shah	09/24/09	10/31/11	\$250,000
Persistent Stare Exploitation and Analysis System (PerSEAS)	Kitware	Shah	09/07/10	06/30/12	\$373,750
RF-Video Action Recognition in SLIPstream	Intel Corporation	Shah	07/20/10	04/15/14	\$25,000
Video Image Retrieval and Analysis Tool (VIRAT) - Phase II	Kitware	Shah	09/07/10	11/23/11	\$166,406
Sarnoff: Content Extraction for IARPA Aladdin Program	Sarnoff Corporation	Shah	02/17/11	02/29/12	\$375,000
BBN Technologies: Content Extraction for IARPA Aladdin Program	Raytheon BBN Technologies	Shah	02/14/11	02/29/12	\$300,000

Installation of Visual Inspection/Detection Equipment in the new HiRail Vehicle	Florida Department of Transportation	Shah	06/20/11	12/31/11	\$2,450
REU Site: Research Experience for Undergraduates in Computer Vision	NSF	Shah Da Vitoria Lobo Tappen	05/01/09	04/30/12	\$300,000
RET Supplementto REU Site: Research Experience for Undergraduates in Computer Vision	NSF	Shah Da Vitoria Lobo Tappen	09/30/09	04/30/12	\$52,400
Students Actualizing Talent at Education's Subsequent Stages (STATESS)	NSF	Shah da Vitoria Lobo Li Moore	01/01/10	12/31/13	\$599,973
Student Support - Boyi Yang	Texas Instruments	Shen	06/01/10	06/01/12	\$150,000
NASA SBIR Phase II: High-Temperature, Wirebondless, Ultra-Compact Wide Bandgap Power Semiconductor Modules for Space Power Systems	APECOR	Shen	07/01/11	10/30/11	\$24,988
RCTA - H8 Dynamics of HR Military Teams & Organizations (PO Task# 032)	General Dynamics	Shumaker Wu, A.	04/28/11	10/31/11	\$80,063
Collaborative Research: Patient-Adaptive Feedback Control of Rotary Heart Assist Devices	NSF	Simaan	08/01/08	04/30/12	\$193,328
Supplement to Collaborative Research: Patient-Adaptive Feedback Control of Rotary Heart Assist Devices	NSF	Simaan	08/23/09	04/30/12	\$33,963
Pilot: Assisted Musical Composition through Functional Scaffolding	NSF	Stanley	08/15/10	07/31/13	\$295,229
Stanley Research Support - Various	Dr. Charles Bailey	Stanley	03/03/08	04/15/13	\$26,850
Stanley Research Support - Various	Toyota USA Foundation	Stanley	03/03/08	04/15/13	\$45,000
Stanley Research Support - Various	Global Institute for Scientific Thinking, Inc.	Stanley	03/03/08	04/15/13	\$102,500
DARPA CSSG Phase III: Real-world Scalable Multiagent Learning for Coordinated UGV Operations	DARPA	Stanley	08/20/11	08/19/12	\$249,347

Training a Multiagent Hive Brain for Coordinated UGV Operations	ARO	Stanley	09/15/11	12/15/12	\$150,000
Engineering Global Leaders	US Dept. of Education	Stebbins Gonzalez, A. Kassab	08/01/08	07/31/12	\$224,862
CAREER: Modeling Group Dynamics in Multi-agent Systems	NSF	Sukthankar	07/01/09	06/30/14	\$434,943
Improving Synthesis and Recognition of Crowded Scenes using Statistical Models of Group Behavior	Air Force Research Lab	Sukthankar	07/01/09	11/30/11	\$259,110
Exploiting Social Context for the Anticipatory Analysis of Human Movement	DARPA	Sukthankar	06/25/10	06/24/12	\$400,000
RF - Preparation of Boron Carbon Nitride (BCN) Films by RF Sputtering using Dual Target Approach	Intel Corporation	Sundaram	08/01/09	07/31/12	\$24,000
HCC: Medium: Collaborative Research: Computer Vision and Online Communities: A Symbiosis	NSF	Tappen	07/15/09	06/30/13	\$399,149
RI: Small: Learning-Based Systems for Single-Image Photometric Reconstruction	NSF	Tappen	08/15/09	07/31/12	\$363,005
NCMR Scholars Applications for RI: Small: Learning-based Systems for Single-Image Photometric Reconstruction	NSF	Tappen	09/18/09	07/31/12	\$30,000
Journey Beyond the Fairs	National Endowment for Humanities	Walters Hughes Hughes, Darin	03/01/11	02/29/12	\$49,715
CPA-ACR: Fast Recovery using Optimal and Near-Optimal Parallelsim in Data-Intensive Computing	NSF	Wang	09/01/08	08/31/12	\$273,992
REU Suppplement to: CPA-ACR: Fast Recovery using Optimal and Near- Optimal Parallelsim in Data-Intensive Computing	NSF	Wang	09/01/08	08/31/12	\$16,000

CAREER: Data-Intensive HPC Analytics: A systems approach through extended interfaces, data restructuring and data- centric scheduling	NSF	Wang	03/15/10	02/29/12	\$101,659
CSR: Small: DSA-Cloud: Data Semantics Aware Clouds for High Performance Analytics	NSF	Wang	09/01/11	08/31/14	\$374,973
Cost Analysis of Bariatric Surgery in an Employee-based Healthcare System Following Surgery Coverage	Florida Hospital	Windyga	06/30/08	11/15/11	\$123,000
CAREER: Algebraic Approach to the Design of Novel Quantum Algorithms	NSF	Wocjan	02/01/08	01/31/12	\$320,000
A Distributed Approach to Self Organization thru Variation and Probabilistic Specialization	Office of Naval Research	Wu, A	07/01/09	06/30/12	\$233,029
High-efficiency, High-temperature DC-DC Converter Optimization and Testing	APECOR	Wu, T.	09/01/10	08/31/12	\$40,000
Induced Power System Simulation Model Project	Siemens Energy, Inc.	Wu, T.	09/01/11	12/31/11	\$14,428
Dynamic Heat Generation Modeling and Thermal Management of Electromechanical Actuators	AFRL	Wu, T. Chow	01/21/09	01/20/12	\$154,000
Support for Yuan Nanoelectronics Reliability Lab	Jun, Ma	Yuan	05/31/10	04/15/14	\$20,000