

Name	Sub-Plan	Major Prof	P/T	Thesis/Project Title: <a href="http://iii.library.unt.edu/">http://iii.library.unt.edu/</a>
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**SUMMER  
2016**

Obuladinne, Sai Sujith	Mechanical	Bostanci, H	T	Two-Phase Spray Cooling with Water/2-Propanol Binary Mixtures for High Heat Flux Focal Source
Adhikari, Pashupati Raj	Mechanical	Mirshams, R	T	Knowledge-Based System and Optimization of ASHBY's Methodology in Materials Selection for Aircraft Cabin Metallic Structures

**SPRING  
2016**

Haydn Vaughan	Mechanical	Nasrazadani, S	T	Development of an Accelerated Corrosion Test for All Aluminum Micro-channel Heat Exchangers
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**FALL 2015**

T. Robertson	Construction	DeSimone, D	P	Benefits of Lean Construction
Adrian Calixte	Construction	Shenoda, M	P	Stormwater Harvesting Analysis for LEED Certification at ServeDenton Community Center
Liang Xiong	Construction	Huang, Z	T	Impact of Green Design and Technology on Building Environment
Andrew Hedric	Construction	Huang, Z	T	Dynamic Behaviors of Historical Wrought Iron Truss Bridges – A Field Testing Case Study
Gilman Shaikh	Construction	Huang, Z	T	Guidelines for Greening (Renovation) of Existing Residential Home
Justin Coffey	Construction	Yu, C	P	Finite Element Analysis of Cold-Formed Steel Clip Angles in Shear
Pavan Teja Kondiseti	Construction	Yu, C	P	Finite Element Analysis of Cold-Formed Steel Clip Angles in Tension
Adnan Sayeed Syed	Construction	Yu, C	P	Development BIM Family for CFS Corrugated Shear Walls
Bharat Kavuru	Electrical	Wang, S	P	Analyzing the Effect of Turbulence on fso Link Using WDM System over Normal Link
Mustafa Ali Almahel	Electrical	Wang, S	P	The Role of Infrared Testing at Data Centre
L. Lrmadhu	Electrical	Kougianos, E	T	Wireless Sensor Network Design for High Data Rate Applications
A. Abubakr	Electrical	Kougianos, E	P	Bluetooth interfacing of sensors to microcontrollers and the IoT
F. Almutairi	Electrical	Kougianos, E	P	Microcontroller interfacing for Digital FM radio applications.
A. Alshaheen	Electrical	Kougianos, E	P	Microcontroller interfacing for environmental alerts
P. Nguyen	Electrical	Kougianos, E	P	Microcontroller-based USB VID & PID Tester
Satvik J. Yaddanapudi	Mechanical	Bostanci,H	T	Spray Cooling with HFC-134a and HFO-1234yf for Thermal Management of Automotive Power Electronics
Amir Hossein Bagheri	Mechanical	Bostanci,H	T	Preliminary Analysis of an Innovative Rotary Displacer Stirling Engine
Sandeep Thodupunoori	Mechanical	Bostanci,H	P	Spray Cooling with HFC-134a and HFO-1234yf on Microporous Surfaces
Mustafa Rawshdeh	Mechanical	Nasrazadani, S	P	

**SUMMER  
2015**

Martin Dara	Construction	Yu, C	T	Direct Strength Method for Webcrippling of Cold-Formed Steel Sections under One-Flange Loading
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Saikrishna Kondapally	Construction	Yu, C	P	Modeling of an Innovative Stirling Engine
Raviteja Charungundia	Construction	Yu, C	P	Modeling and Analysis of Traffic at UNT Discovery Park

**SPRING  
2015**

S. K. Y. Nakkala	Electrical	Kougianos, E	P	Verilog implementation of fast cryptographic cores for FPGA applications
C. H. Djaha Fodja	Electrical	Kougianos, E	P	Verilog implementation of fast recursive calculators for FPGA applications
Koteswara Rao Kota	Electrical	Wang, S	P	WDM Optical Transport Network with GMPLS Technology
Datta Venkatesh Kadiyala	Electrical	Wang, S	P	Handoff in Mobile Wireless Communication Networks
Javier Barnes	Mechanical	Nasrazadani, S	T	Application of Cyclic Polarization of Aluminum 3003 used in All- Aluminum Microchannel Heat Exchangers
Surya Chinthalaphani	Mechanical	Bostanci,H	P	Evaluation of Hydrophobic and Hydrophilic Surfaces for Their Durability in Immersion Cooling
Nick Evans	Mechanical	Nasrazadani, S	P	
Johnathan Gallo	Mechanical	Nasrazadani, S	P	
Pooja Dronavalli	Mechanical	Nasrazadani, S	P	
Venkata Venkatesh	Mechanical	Nasrazadani, S	P	

**FALL 2014**

Mohamad Yousof	Construction	Yu, C	T	Analytical Model for Lateral Deflection in Cold-Formed Steel Framed Shear Walls with Steel Sheathing
Matthew McCall	Construction	Yu, C	P	BIM Applications in Residential Buildings
Christopher Winton	Electrical	Wang, S	P	Advancements in Solar Energy
Nihal E. Joshua	Mechanical	Bostanci,H	T	Direct Immersion Cooling via Nucleate Boiling of HFE-7100 Dielectric Liquid on Hydrophobic and Hydrophilic Surfaces
Adnan Almuwallad	Mechanical	Bostanci,H	P	Integration of Refrigeration and Spray Cooling Cycles for Electric Drive Vehicles
Y. Y. Bao	Mechanical	Zhang, H		Design and analysis of a thermal acoustic heat engine
Lijun Yang	Mechanical	Zhang, H		Wide band energy harvester design

**SUMMER  
2014**

Zheng Ji	Electrical	Wang, S	T	The use of optical metrology in active positioning of a lens
Yousefi-Darani, Shahrokh	Electrical	Barbieri, E	T	Control and Automation of a Heat Shrink Tubing Process

**SPRING  
2014**

McCall, Matthew	Construction	Yu, C	P	Building Information Modeling in Construction Management
Sapru, Puja	Construction	Yu, C	P	Residential Design Using Autodesk Revit 2014
Thompson, Roman	Construction	Huang, Z	P	Construction project design/mark-up tools: Autodesk versus Bluebeam
Aarella, Seema	Electrical	Kougianos, E	P	FPGA implementation of a Fibonacci calculator for cryptographic applications
Somashekar, Nishanta	Electrical	Wang, S	P	Multiband Spectral Subtraction for Speech Enhancement
Patel, Divyesh	Electrical	Wang, S	P	Review of Fully Portable External Defibrillator
Chellan, Ramesh	Management		P	
Carrillo, Lidia Ponce de Leon	Management		P	

**FALL 2013**

Al Saad, Qutaibah	Construction	Huang, Z	P	Understanding and optimizing the Geosynthetic-reinforced steep slopes
Ahmadi, Mehdi	Electrical	Zhang, H	T	Energy Harvesting Wireless Piezoelectric Resonant Force Sensor
Darko, David	Electrical	Vaidyanathan, V	P	Blood Pressure Monitoring and pulse oximetry in an intelligent home-based monitoring device
Habib, Abdulrahman	Management	Boubekri, N	P	Application of Critical Path Methodology to optimize Academic/Career Outcome
Karni, Badr	Management	Boubekri, N	P	Cost Estimation Accuracy in Software Development Projects
Karim, MD Afzalul	Mechanical	Zhang, H	T	The Measurement of the Third-Order Elastic Constants for La <sub>3</sub> Ga <sub>5</sub> SiO <sub>14</sub> (LGS) & La <sub>3</sub> Ga <sub>5</sub> Ta <sub>0.5</sub> O <sub>14</sub> (LGT) Single Crystal
McFarland, Rusty	Mechanical	Nasrazadani, S	P	Steel Surface Finish: Design for Six-Sigma

**SUMMER  
2013**

Magill, Joshua	Management		P	
Alali, Mohammed	Mechanical		P	
Kallenberger, Kent	Mechanical	Nasrazadani, S	P	Jominy End Quench Test Fixture Construction and Design
Zimmerer, Patrick	Mechanical	Nasrazadani, S	P	HVAC Laboratory System Project

**SPRING  
2013**

Williams, Charles	Construction	Huang, Z	P	4D design in construction: a look at the possibilities of expanding technology for use during the construction process
Yu, Guowang	Construction	Yu, C	T	Cold-Formed Steel Framed Shear Wall Sheathed with Corrugated Steel Sheet
Yanagi, Noritsugu	Construction	Yu, C	T	Analytical Model of Cold-Formed Steel Framed Shear Wall with Steel Sheet and Wood-Based Sheathing
Praveen Seelam	Construction	Yu, C	T	Direct Strength Method for Web Crippling of Cold-Formed Steel C Sections
Ho Gonzalez, Carlos	Electrical	Wang, S	P	Arduino Uno Wireless Temperature and Lux Monitors

Rivera, Michelle	Electrical	Kougianos, E	P	Thermal Management Systems Using Microcontrollers
Al Fadhli, Hassan Abbas	Management	Anaya, L	P	Simulation of a Manufacturing Operation as Newspaper Vendor Stations
Brigham, Nicholas	Management	Anaya, L	P	Dissatisfaction Analysis
Reyes, Adan Ray	Management	Anaya, L	P	A Lesson Learned Approach to Technological Advances-Analysis of Helmed Mounted Display Systems
Reyes, Luis	Management	Nasrazadani, S	P	Garage Door Torsion Spring Failure Analysis
Taylor, Jesse	Management	Anaya, L	P	Weight Reduction Flexibility Study on Peterbilt Trucks
Al Zawaad, Ali Qassem	Mechanical	Bostanci, H	P	Design of an Experimental Setup for Immersion Cooling
Baron-Riveros, Gustavo	Mechanical	Anaya, L	P	Simulation of Commonality Effect on Two-Product Safety Stocks
Dong, Yao	Mechanical	Foster, P	T	Effects of Processing Techniques on Mechanical Properties of Selected Polymers
Phadnis, Ameya	Mechanical	Nasrazadani, S	T	Corrosion Protection of Low Carbon Steel by Cations Substituted Magnetite (Fe <sub>3</sub> O <sub>4</sub> )
Reddy Seelam, Praveen	Mechanical	Yu, C	T	Direct Strength Method for Web Crippling of Cold-Formed Steel C-Sections

**FALL 2012**

Agbo, Joseph	Electrical	Vaidyanathan , V	P	Blood pressure monitoring using an iphone app and commercial monitors
Alahmari, Saeed	Electrical	Wang, S	P	The Effect of External Circuits on the Saturation Level of PIN Photodiode
Mamouaka, Elsie Nella	Electrical	Kougianos, E	P	A Jacobsthal Number Calculator in Verilog and its FPGA Implementation
Okpokwasili, Obinna	Electrical	Wang, S	P	Telecommunications Systems and Technology: A Review
Prasanna, Ketan	Electrical	Wang, S	P	To Reduce the Air Interference of Broadband Wireless Access Networks (WiMAX) on Aircrafts
Fortier, Jason	Management	Anaya, L	P	Software Feasibility Study
Gonzalez, Marcos	Management	Anaya, L	P	Voice of the Customer Analysis on Water Shut-Off Valve
Reyes-Castillo, Mauricio	Management	Anaya, L	P	Lean Opportunity Assessment: Continuous Improvement on Pumping Systems
Sealey, Brian	Mechanical	Boubekri, N	P	Configuration Management: A productivity Improvement Approach

**SUMMER  
2012**

Porter, Logan	Electrical	Vaidyanathan , V	T	Wireless In-Home ECG Monitoring System with Remote Access
Eldridge, Nathan	Management	Barbieri, E	P	Baker Hughes, Inc. – Actuator Comparison in Pressure Pumping: Testing and FEA
Lee, Pohua	Management	Zhang, H	T	A Wide Band Frequency-Adjustable Piezoelectric Energy Harvester - Experimental Study
Monaghan, James	Management		P	
Xie, Yuan	Management	Zhang, H	T	Drive Level Dependence of Advanced Piezoelectric Resonators

Cole, Matthew	Mechanical	Boubekri, N	T	Mist Characterization in Drilling 1018 Steel
Maru, Tejas	Mechanical	Boubekri, N	T	Effects of Minimum Quantity Lubrication (MQL) on Tool Life in Drilling AISI 1018 Steel

**SPRING  
2012**

Adeleye, Titilola	Construction	Huang, Z	P	Predicting loss for large construction companies
Li, Chao	Construction	Yu, C	T	Nominal Shear Strength of Cold-Formed Steel Sheer Walls using OSB Sheathing
Panyanouvong, Mark	Construction	Yu, C	T	Bearing Strength of Cold-Formed Steel Bolted Connections in Trusses
Olufunmilayo, Akintemi	Management		P	
Al Nassir, Jehad	Management		P	
Cribbs, David	Management		P	
Katipomu, Satyapavankumar	Management		P	
Ngero, Douglas	Management		P	
Coelho, Gavin	Mechanical	Kougianos, E	T	OTA-Quad rotor: An Object-tracking Autonomous Quad rotor for Real-Time Detection and Recognition
Okafor, Uzochukwu	Mechanical	Mirshams, R	T	Mechanical Characterization of A2 and D2 Tool Steels by Nanoindentation