

EEC 494 Senior Design Project Presentation, Friday, April 26, 2019, FH 348, Dr. Moncef Tayahi

TIME	PROJECT	STUDENTS	SPONSOR	FACILITY MENTOR
10:30 AM	A Test Load Bank for Arc Welding Power Sources	Dipiero, Michael I; Galaska, Christopher J; Kononets, Timofey V; Turnick, Adam M	Lincoln Electric	Dr. Hongxing Ye
10:50 AM	Lower Limb Assistive Exoskeleton for the Elderly	Quintano, Daniel A; Munguia, Kevin Mitchell	Discovery Lab – Global (DLG)	Dr. Dan Simon
11:10 AM	Qi Charging Station for an Industrial Application	Almohsen, Khadijah; Armstrong, Samuel F; Alzahrani, Sarah Hamadan; Klimek, Ernest R	Lincoln Electric	Dr. Moncef B Tayahi
11:30 AM	Smart Ride-On Car Motor Control Circuit	Pajestka, Ron James; Itanna, Yohannes F; Schreiber, Ryan Steven; Ng, Louis	RePlay for Kids	Dr. Zhiqiang Gao
11:50 AM	The IIOT, Data Analytics, and Metrics Behind Exhibits - GLSC Automation Exhibit	Millar, James David; Garnett, Alonte Antonio; Brunson, Benjamin Hogan;	Rockwell Automation	Dr. Zhiqiang Gao
12:10 PM	Lunch (FH 311, Pizza and Pop)			
12:40 PM	Economic RFID Tag for Seal-Lok Torque Identification	Bish, Hayden M; Forsack, Gandhi Musaa; Lu, Tianyu; Baker, Demariel Christian	Parker Hannafin	Dr. Murad Hizlan
1:00 PM	A Data Acquisition System for Prosthetic Leg Modeling and Control	Alrubayan, Rubayan Ibrahim; Doris, Julia B	Faculty - Dr. Dan Simon	Dr. Dan Simon
1:20 PM	Smart Building Energy Management with Internet of Things Technology	Malone, Brian; Ross, Christopher W; Fisher;Gluth, Daniel P;Alghanem, Abdullah Salem	Faculty - Dr. Hongxing Ye	Dr. Hongxing Ye
1:40 PM	Affordable Universal Wireless Microphone System	Mandelik, Logan F; Funk, Woodrow B; Kremiller-Kocin, Bailey N; Jarred Goldweber	Student - Jarred Goldweber	Dr. Moncef B Tayahi

2:00 PM	Self-Sufficient Electromechanical Bicycle	Jones, Jerry Austin; McNeill, Noah Clinton; Daniel O'Donnell;Richey, Jacob H	Student - Daniel O'Donnell	Dr. Ana Stankovic
2:20 PM	Modular Robotic Application	Hatay, Emre; Rancour, Brighid Mara; Bisirici, Gazi;	Student - Emre Hatay	Dr. Zhiqiang Gao

EEC 494 Senior Design Project Presentation, Friday, April 26, FH 309, Dr. Pong Chu				
TIME	PROJECT	STUDENTS	SPONSOR	FACILITY MENTOR
10:30 AM	Configurable FPGA	Weston,Alec James ;Lokey,Aubrey L ;Abas,Ahmad J ;	ZIN Technologies	Dr. Pong Chu
10:50 AM	Implementing Parallel Groebner Basis Algorithms on GPUs	Bowman,Joshua Tyler ;Cox,Shane D ;Davis,Myles La'Royce ;Dowling,Bradley Thomas	NASA GRC	Dr. Janche Sang
11:10 AM	Medical Alert Shirt	McKinnie,Jalen R ;Anderson,Nicholas L ;Uwase,Alice ;Thuwaimer,Thamer Abdullah	Discovery Lab – Global (DLG)	Dr. Pong Chu
11:30 AM	GPS/GIS Mapping	Bobango,Matthew P ;Fasko Jr,Michael A ;Patel,Harshkumar S ;Patel,Harshkumar Mahendrakumar	CSU	Dr. Chansu Yu
11:50 AM	Matrix Tone Synthesizer	Mullee,Theodore J ;Steen,Nicholas Ryan ;Rees,Trey Evan ;Crowder Jr,Christopher Lee	Faculty - Dr. Pong Chu	Dr. Pong Chu
12:10 PM	Lunch (FH 311, Pizza and Pop)			
12:40 PM	Bitcoin Data Analysis	Joyce,Evan Charles ;Ramsay,Michela Marie ;Tomaro,Mark William ;Chiu,Lawrence	Faculty - Dr. Ye Zhu	Dr. Ye Zhu
1:00 PM	Semi-Automated Nursing Simulation with Mixed Reality Technology	Kanzaria,Parth Virendrakumar ;Traben,Isaiah Kenneth ;Keisi,Kotobelli ;Bobel,Eric R	Faculty - Dr. Wenbing Zhao	Dr. Wenbing Zhao

1:20 PM	Wearable Context-Aware Sensing for Human Behavior and Health Monitoring	Neathery,Joseph A ;Zaidi,Myra S ;Chatha,Manpreet Kaur ;Forde,Wayne	Faculty - Dr. Wenbing Zhao	Dr. Wenbing Zhao
1:40 PM	Speak 'n' See	Escondo,Rebecca ;Zakucia,Michael T ;Barcelona,Jory Garrick ;Al Kadhem,Saleh Alawi	Faculty - Dr. Jackie Woldering	Dr. Jackie Woldering
2:00 PM	Pizza Topping Machine	Kall,Ryan T ;Sulecki,Ryan James ;Mark Travis;	Student - Mark Travis	Prof. Toufik Aidja

EEC 494 Senior Design Project Presentation, Friday, April 26, FH 326, Dr. Yongjian Fu				
TIME	PROJECT	STUDENTS	SPONSOR	FACILITY MENTOR
10:30 AM	Reliable, Secure, and Simple Public Bike Storage	Juba,Otto Fisk ;Gaston,Nicholas Alexander ;;Thornton,Alexander C ;House,David Charles ;Steven Collins	Student - Steven Collins	Dr. Mohammad Shirazi
10:50 AM	Bluetooth Low Energy Sensor to a Linux Based Augmented Reality Headgear	DeCamillo,Alexander G ;Conroy,Michael Shawn ;;Kalanish,Neil Michael ;Melito,Joseph A	Parker Hannafin	Dr. Mohammad Shirazi
11:10 AM	Fetching Information from 3rd Party to Michael Schwartz Library System	Moore,Alan ;Wallace,Dequane A ;;Dennis,Kendra ;Lahham,Elias H ;Mason,Joseph P	Faculty - Dr. Yaling Zheng	Dr. Yaling Zheng
11:30 AM	Real Estate Information Service System for Urban Development and Planning	Stell,Joel A ;DeLeone,Joseph David ;;Eljaouhari,Amanda Faouzi ;Pettry,Dakotah Skylin	Faculty - Dr. Sunnie Chung	Dr. Sunnie Chung
11:50 AM	Automatic Cloud Base Detection in Total Sky Imagery	Sesek,Sarah E ;Godhani,Gopal Lashkarbhai ;;Allums,Edward Montel ;Mayich,Daniel	Faculty - Dr. Thijs Heus	Dr. Yongjian Fu
12:10 PM	Lunch (FH 311, Pizza and Pop)			
12:40 PM	Vision-Based Human Detection System for Internet of Things	Reynolds,Ryan ;Dawson,Brett ;;Kamel,Mina ;Shenouda,Botros G	Faculty - Dr. Mohammad Shirazi	Dr. Mohammad Shirazi

1:00 PM	Heart Signal Estimation Using System Identification Based Black Box Models	Nace,Jakob Linden ;Al Ismaili,Hamed Nasser Hamed ;;Negrescu,Vasile ;	Faculty - Dr. Almabrok Essa	Dr. Almabrok Essa
1:20 PM	Protobot	Shells,Eric Donald ;Ashrabkhujaev,Azamkhuja ;;Salvoro,Brian Johnson ;DeProspro,Anthony M ;Peter Parianos	Student - Peter Parianos	Dr. Haodong Wang
1:40 PM	KnowMe App	Lloyd,Mason J ;Arriola,Miguel Salvador ;;Howards,Brian L ;Warren,Anthony J	T.O.T Solutions LLC	Dr. Yongjian Fu
2:00 PM	Raspberry Pi Automation	Smith,Rachel E ;Fueger,Collin J ;;Manalo,Miguel Samera ;Cory Halfast	Student - Cory Halfast	Dr. Mohammad Shirazi