

Spring 2014 Junior-Senior Engineering Clinic Projects

ME Project	Proj. Manager	ME	ECE	ChE	CEE
1 App Development	Bakrania	2	2	0	0
2 Microcombustion	Bakrania	2	0	3	0
3 Arm motion and control module	Kadlowec	2	1	0	0
4 Sheat tests for hydrogels	Kadlowec	3	0	1	0
5 Intramedullary rod/screw failure	Kadlowec	3	0	0	0
6 Forearm Plate Design	Singh	4	0	0	0
7 Treadmill Device	Singh	4	0	0	0
8 Physiological Monitoring	Merrill	5	1	0	0
9 Computational Biofluids	Merrill	3	0	0	0
10 CorePal	Bhatia	2	0	0	0
11 Hybrid Powertrain	Bhatia	4	0	0	0
12 Energy Audit	Bhatia	3	0	0	0
13 Turbo-compounding Hybrid	Bhatia	2	0	0	0
14 SAE Supermileage	Constans	6	0	0	0
15 Plasma healing	Fridman	2	0	0	0
16 EHAWK	Zhang	2	2	0	0
17 Medicine dispenser	Zhang	2	2	0	0
18 Quadcopter	Zhang	1	2	0	0
19	0	0	0	0	0
20	0	0	0	0	0

ECE Project	Proj. Manager	ME	ECE	ChE	CEE
1 Virtual Reality Volumetric Visualizer for DICOM Patien	Lecakes/Mandayar	1	3	1	1
2 CAVE / Oculus Rift Collaborative Patient Simulator	Lecakes/Mandayar	1	3	1	1
3 Virtual Reality Unity Development w. Web Deploymen	Lecakes/Mandayar	1	3	1	1
4 Laser Analysis of Aggregates	Ramachandran	0	2	0	0
5 Biometric System Implementation: Speaker and Face	Ramachandran	0	2	0	0
6 Computational Intelligence - Semisupervised Learning	Polikar	1	3	0	0
7 Computational Intelligence - Active Learning in Nonst	Polikar	1	3	0	0
8 Biomarker Fusion & Domain Adaptation in Medical Di	Polikar	1	3	0	0
9 Brain Computer Interface / Temporal Memory System	Samaritano	1	2	0	0
10 Objective Quantification of Reflex in Pregnancy	Polikar	1	2	0	0
11 Water Electrolysis for Fuel: Evaluating New Catalysts	Krchnavek/Schmalz	2	4	2	0
12 Energy Harvesting for Sensor Arrays	Krchnavek	0	2	0	0
13 Center for Sustainable Design (CSD) Projects: (1) Adv	Schmalzel/Krchnav	1	6	2	1
14 CSD Entrepreneurial: (1) Android Mapping GUI Devel	Schmalzel/Krchnav	1	4	0	0
15 Augmented Reality - Wearable Image Guided Surgica	Tang	2	4	0	0
16 SustainCity - Serious Games Design	Tang	2	4	0	2
17 Cyber Security: Work with sponsor to evaluate securit	Schmalzel	0	3	0	0
18 Large (!) Scale Analysis of The Earth Microbiome Proj	Ditzler	1	2	0	0
19 Improving Filter Based Feature Selection Wrappers	Ditzler	1	2	0	0
20 Adaptive virtual reality game for Autism Syndrome Dis	Tang	1	2	0	0
21 Robot Localization using Particle Filters	Bouaynaya	0	2	0	0
22 Detection of Multistability in Biological Systems	Bouaynaya	0	2	0	0
23 Bactericidal Coatings for Orthopedic Implants	Krchnavek	1	2	1	0
24 Tesla Art Exhibit: Assist area artist by developing kinet	Schmalzel	0	0	0	0
25 Raman Spectroscopy and SEM Evaluation of Syntheti	Krchnavek	0	1	1	0
26 Characterization of Catalysts for Synthetic Fuel Produ	Krchnavek	0	1	1	0
27 Evidence Based Detemination of Technology and Sys	Atwater / Schmalze	1	1	0	0
28 Design, Test & Launch of the Database for STEM Syn	Head/Hecht	0	2	0	0
29 Digital Pupillometry for continuous, non-invasive meas	Izzetoglu/Hirsch	1	2	0	0
30 Enhancement of Wearable Wireless Near Infrared Ser	Head	1	2	0	0
31 Development of Sleep Mode Firmware for Near Infrar	Izzetoglu	0	2	0	0
32 Plasma stops bleeding and closes wounds	Fridman	1	1	1	0
x Student Initiated Project	TBD	0	0	0	0

