

2024 SENIOR DESIGN CONFERENCE - APRIL 26, 2024

LIST OF PROJECTS

No.	Project Title	Team Members	Faculty/Mentor
Architectural Engineering			
AE1	The Design of a Kingsville Sports Center	Jalen Jackson Tammy Grohman Kaleb Perez MsHari Alhereri	Dr. Xiaoyu Liu
AE2	TAMUK Recreation Center Redesign	Ruth Rojas Jose Baldazo Carlos Puentes Valeria Trujillo	Dr. Xiaoyu Liu
AE3	Design of the King Entertainment Center	Fabrizio Campos Justin Hernandez Rashane Hibbert Omar Montoya	Dr. Xiaoyu Liu
AE4	Design of the Javelina Event Center	James Chang Anastatia Guerra Fernando Garcia Rafael Salinas	Dr. Xiaoyu Liu
AE5	Design of the Strike Studios	Kaleb McDonald William Marquez Annelise Garcia Keishanna Tirado	Dr. Xiaoyu Liu
Chemical Engineering			
CH1	Annie, Are you Ok? (Aniline from Benzene)	Riley Doerr Angelica Gallegos Yuli Torres Orlando Villalpando	Dr. Matthew Alexander
CH2	Isobutylene from Isobutane	Jarrod Pugh Noe Mendiola Victor Andrade	Dr. Matthew Alexander
CH3	The Production of Biodiesel from Chicken Skin	Antony Evangelista Jacob Gonzalez Christina Lopez	Dr. Matthew Alexander
CH4	Hydrazine from Ammonia and Hydrogen Peroxide	Fatima Hernandez Andrea Jimenez Heather Garcia Jazmin Acosta	Dr. Matthew Alexander
Civil Engineering			
CE1	Javelina Garage	Othman Alsenafi Abdualla Alazemi Mohammad Alazemi Hamad Alazemi Musallam Alazemi	Dr. Breanna Bailey

CE2	Kingsville Mosque Expansion	Mohammad Benmanzel Hamad Alazemi Talal Alazemi Nayef Alazemi	Dr. Breanna Bailey
CE3	H.M. King Pedestrian Bridge	Yousiff Albreeky Abdullah Alazimi Salem Alharan Mohand Alharan	Dr. Breanna Bailey
CE4	Seale Street	Fahad Alazemi Faleh Alazemi Talal Almutairi Mohammad Alhuraiti Yousef Alqurashi	Dr. Breanna Bailey
CE5	Javelina Town	Ruben Cantu Ruth Rojas Nicholas McRae Jose Baldazo Kaleb McDonald	Dr. Breanna Bailey
CE6	Kingsville Community Center	John Craig Elijah Di Lella Mario Saldivar Joshua Trimm	Dr. Breanna Bailey
CE7	TAMUK Multiplex Theatre Design	Agustin Alanis Kailey Estrada Ryan Fleming Matthew McCanna	Dr. Breanna Bailey
CE8	General Cavazos Overpass	Anaeliz Jacobo Abraham Ortiz Guillermo Raul Serna	Dr. Breanna Bailey
CE9	Calypso Hall	Homero A. Frausto Castillo Jaime Silva Joseph Mikulencak Brett Kelley	Dr. Francisco Aguiniga
CE10	Garden Square Apartments	Pedro Barrios Jack Hinshaw Dillon Bredesen Joshua Garcia	Dr. Francisco Aguiniga
Computer Science			
CS1	TAMUK Interior Mapping	Steven Rivera Kilmer Bluntzer Albert Alvarado	Dr. David Hicks
CS2	Finance Portal	Jose Camacho Temitope Adebambo David Barrera	Dr. David Hicks
CS3	Smart Mirror	Carolina Cantu Diego Trueba Linh Cao Liz Dominguez	Dr. David Hicks
CS4	ConnectTASKtic ProdAPptivity	Michael Alfaro Brandon Banda Alexander Singer Sebastian Villanueva	Dr. David Hicks
CS5	Multi-Threat Detection: A Well-Rounded Approach for Common Attacks Found in Cyber Space	John Cavazos Anthony Martinez Leo Martinez Jalen Williams	Dr. David Hicks
CS6	EnhancerTracker: Leveraging Neural Networks for Enhancer Identification in Genomic Sequences	Rolando Garcia Luis Solis	Dr. David Hicks
Electrical Engineering			

EE1	Cost-Effective Room Mapping/Modeling Module	Christopher Trevino Brandon Medina Grady Besancon Zachary Kolodziejczyk	Dr. Nuri Yilmazer
EE2	Plant Monitoring and Defense System	Agustin Omar Perez Logan Atkinson Cedric Cerda Carlos Martinez III	Dr. Lifford McLauchlan
EE3	Autonomous Robot for Material Handling	Martin Ramos Althahir Ceja Xavier Mendoza Leonardo Beltran	Dr. Lifford McLauchlan
EE4	Autonomous Smart Light	Jazmin Ray Jacob Tuley Jonathan Brooks Hugo Tavares	Dr. Lifford McLauchlan
EE5	Portable Solar Charger	Angela Rios Apolonio Esquivel Timothy Hemming Roel Lopez	Dr. Lifford McLauchlan
Environmental Engineering			
EV1	Cyanide Reduction in Wastewater Effluent	Reeshemran Davis Madilyn Dugosh Victor Garcia James Martinez Alexander Solis	Dr. Jennifer Ren
EV2	Alternative Septic System Solutions for Texas Colonias	Ahjanay Dixon Desiraee M. Silvas Fernando Menjares Jr. Mary-Anna Roberts	Dr. Jennifer Ren
Mechanical Engineering			
ME1	Scorp-Bot	Josh Bailey Lianna Vela Caden Rozacky Adrian Lopez Isaac Moreno	Mr. Grady Isensee
ME2	SAE Baja Competition	Ian Brewer Emilio Hernandez Azil Moreno Creighton Osornia Eric Perez Zane Strickland	Mr. Grady Isensee
ME3	Design of a Multi-Tool Actuator	Jordan Cantu Ryan Carrion Christian Gonzales Japhet Izeh Alex Jaurequi Angelo Villarreal	Mr. Grady Isensee
ME4	Design of a Combustion Chamber and Fuel System for a Mirco-Turbine	Robert Avalos Choi Wooseok Matthew Contreras Eulalio Martinez	Mr. Grady Isensee
Multi-Disciplinary			
MD1	Oil Spill (USV) Unmanned Surface Vehicle	Nicole Escamilla Bailey Kolb Monica Perez Shaun Gill Joaquin Haces-Garcia Edgar Villanueva	Mr. Grady Isensee Dr. Hua Li
Natural Gas Engineering			

NG1	Design of an Indirect Heating System for Treating Emulsified Crude Oil	Jake Chapman Alexander Medina Genaro Garza	Dr. Jose Cabezas
NG2	Improvement and Optimization of Eco-friendly Drilling, Mud Properties Using Field Equipment	Scott Park Rene Yzaguirre	Dr. Jose Cabezas