



School of Energy

2019/20 Mechanical Engineering Capstone Projects

Students	Project	Faculty Advisor(s)	Project Manager
Thomas Lehnart Michael Girard James MacLean Timothy Or	Electric Foil Board Design	Johan Fourie	Michael Girard
Delmar Gustin Maneet Maghera Aren Mardikian Arashdeep Dhillon	Disc Golf Launcher	David Stropky	Delmar Gustin
Pourya Kamkar Aaron Giesbrecht Justin Morfopoulos	Sytronix® Ship Rudder Control Design and Integration	Johan Fourie Greg Filek	Pourya Kamkar
Yuxuan Zheng Xibin Huang Zhen An	Bicycle Disk Brake Test Bench	Brent Dunn	Xibin Huang
Andrew Young Gary Su Ian Robertson	Autonomous Navigation Buoy	Johan Fourie	Andrew Young
Karen Kan Jan Santos	Electrically - Actuated "Dropper" Bicycle Seat Post	Stephen McMillan	Karen Kan
Danilo Dal Cengio James Harrower Matthew Funk	Pipeline Leak Detection System	Johan Fourie Adam Marciniak	Matthew Funk
Jesse Guo	Conceptual Design and Testing of a Subsonic Wind Tunnel	Vahid Askari	Jesse Guo

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Adam Nguyen Frank Huang	Kief Recovery System	Greg King	Adam Nguyen
Corey Pope Kevin Radford	Wheelchair Seating Stabiliser	Jaimie Borisoff Johan Fourie	Corey Pope
Alex Mathew Kai Silver Justin Cheng	Voith-Schneider Thruster Design	Olivian Ciobanu	Justin Cheng
Brett Choi David Medina Roberto Romano	Recyclable Motorized-Scooter	Stephen McMillan	Brett Choi