

School of Energy

2008/09 to 2011/12

Mechanical Engineering Capstone Projects

Student(s)	Project	Year	Faculty Advisor(s)
Trevor Yeadon	Heat Transfer in Porous Aluminum Foams	2008/09	Johan Fourie
James Grahn Steve Boyle	PV-Thermal/PVT Efficient Systems	2008/09	Mehrzad Tabatabaian
Agus Hadiwidjojo Stuart Goodwin Robert Buchmann	WPD Field-Scale Design and Testing	2008/09	Mehrzad Tabatabaian Cyrus Raoufi
Jared Lewis	Lift Fork Design, Manufacture and Test	2008/09	Ed Thompson
Travis Edmonds	Dynamic Enclosure	2008/09	Ed Thompson
Luke Mcdonald Peter Petkov	Motorcycle Power Plant Conversion	2008/09	Johan Fourie
Stephen Li	Vibration Test Rig for Vehicle Suspension	2008/09	Taco Niet Brent Dunn
Joshua M. Nelson	Steam Engine with Electronic Speed Control	2009/10	Alan Inglis
Christopher Peacock	Suspension for Four-Wheel Drive Vehicle	2009/10	Dave Lewis
Richard Chen	Photovoltaic Combined Heat and Power	2009/10	Mehrzad Tabatabaian
Nathan Paolini	Belt-Driven Bicycle Frame	2009/10	Brent Dunn
Stephen McMillan	Girder Shock for a Mountain Bike	2009/10	Johan Fourie

Shih Hsuing Lee	Convective Heat Transfer in Metallic Foams	2009/10	Johan Fourie
Louis Lau Jeffrey Pike	Bicycle Handlebar Manufacturing Process	2009/10	Taco Niet
Daniel Sitter Sherman Wai	Electric Go-Cart	2009/10	Johan Fourie
Gregory Douglas	ROV Thrusters	2009/10	Taco Niet
Richard Versteeg	Underwater Habitat	2009/10	Johan Fourie
Kevin Batalha Su Chong lo	Sonar Scanner Actuator	2010/11	Taco Niet Brent Dunn
Mikhail Bobovski	Convertible Truck Top	2010/11	Johan Fourie
Mathew Brownell	Li-Ion Cell Battery Pack Design	2010/11	Alan Inglis
Yi Shiun Chao Donald Marcellus Fazmin Mohamed	Hydraulic Flushing Cart	2010/11	Johan Fourie
Parminder Cheema Kuok Leong Cheong Terence Tse	Bottle Engraver	2010/11	Alan Inglis
Kathryn Cleven Jason Fuller	Cargo Bike Attachment	2010/11	Steve McMillan
Juan Galan	Mobile Cargo Hoist	2010/11	Johan Fourie
Steven Mousseau	AFRESH House Energy Analysis	2010/11	Taco Niet Joseph Poon
Mike Panz	Fishing Reel	2010/11	Steve McMillan
Bryan Reid Peter Zielke	Micro-Brewery System	2010/11	Johan Fourie

Brian Silvestre	Sensor Jig	2010/11	Alan Inglis
Wolf Tivy	Canoe Sail	2010/11	Johan Fourie
Matthew Denniston Craig Muir	Solar Thermal Water Heater Design	2011/12	Mehrzaad Tabatabaian
Eric Clegg David Sauve	Micro Hydro Power Plant for the Guichon Creek	2011/12	Mehrzaad Tabatabaian Taco Niet
Darren Esau Alvin Lee	Chain Breaking Machine	2011/12	Greg King
Rafael Frialde Jonathan Ng Guido Worthmann	Diesel Engine Powered Heater	2011/12	Dave Stropky
Jeffrey Lailey Kevin Macneil	Bicycle Frame Analysis	2011/12	Brent Dunn
Christopher Lui	Pipe Network System	2011/12	Koorosh Nikfetrat
Anthony Abila Michael Loconte	6-Stroke Engine	2011/12	Mehrzaad Tabatabaian
Neal Lazzari	Electric Go-Cart	2011/12	Johan Fourie