

## **Philadelphia University-sponsored research projects at the Department of Mechanical Engineering**

Title of project	Name of faculty member	Year
Numerical analysis study of a fully developed flow and heat transfer in an irregular annuli	Prof. Munzer Ebaid	2012
Design, build and test a formula student car	Prof. Munzer Ebaid	2013
Cooling of photovoltaic (PV) Panels Using Nano fluids	Prof. Munzer Ebaid	2016
Design, Manufacture and Test Tracked Ground Vehicle for Rugged Terrain Conditions (Deep snow , mud , sand and rocks)	Prof. Munzer Ebaid	2018
Design, build and test a Quad Bike for Desert Conditions	Prof. Munzer Ebaid	2018
Investigation of heat transfer enhancement using Ferro- Nano fluids (Fe <sub>3</sub> O <sub>4</sub> /water) in a heated pipe under the application of magnetic field	Prof. Munzer Ebaid	2019
Mobile PV generator for remote locations	Prof. Munzer Ebaid	2020
Design, build and test of a wind turbine	Dr. Hasan Al Dabbas	2016
Solar car design for race in Cyprus	Dr. Shatha Ammourah	2013