Final Year Projects

Open final year projects for diploma and master thesis

- Concepts of recuperating waste energy in domestic homes and offices 1)
- Concepts and designs of lightweight, highly insulated structures with high mechanical load capacities 1)
- Simulation of energy loss and solar energy gains of absorbers and collectors using MatLab / Simulink software 1)
- Design and generation of a data acquisition and processing programme using LabView software 1)
- Design optimisation and prototyping of an air vent integrated humidifier (see http://humivent.innovative-design.org/) 1)

1) open also to exchange students from Heriot-Watt University

Allocated final year projects for diploma and master degrees

currently none

Former final year projects

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Applications for carbon reinforced composite materials in automotive industry

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Influence of PV-module on bending stiffness of support structures investigated by FEA

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Drive train layout of bus and commercial motor vehicles under utilization of the optimal engine characteristic

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Design of an explosion protected hydraulic systems for a top drive of a deep drilling rig

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CAD design in production process of aviation industry

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Development and design of a needle injecting device for robot assisted surgery during computer tomography (in cooeration with the National Cheng Kung University, Taiwan)

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Investigation to determine the fatigue performance of a tensile sample considering the effetcs of residual strain and hardness, using C2 steel (in cooperation with the Nelson Mandela Cosmopolitan University, South Africa)

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Modelling of a car predictive system for the purpose of lower fuel consumption (in cooperation with the Royal Melbourne Institute of Technology)

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Friction in microelectromechanical systems "MEMS" (in cooperation with the Heriot Watt University, Scotland)