

Paid Industry Sponsored Undergraduate Project available NOW

Project Plus

ROBWAY CRANES

Mechanical Engineering and/or Software Engineering

About Project Plus

The program places undergraduates and honours students with a company under a collaborative agreement to carry out a project whilst studying. The project is usually an assessable part of the students academic program and can cover a period of 3 to 9 months. The program has a dual mission, to enhance students skills through relevant real-world projects in research development and to profit industry through, expertise transfer, innovation and development.

Industry Sponsored Organisation

Robway Safety Systems Pty Ltd is an ISO-9001 certified manufacturer of a wide range of Load Monitoring and Indication Systems for all types of Cranes, Winches and Anchor Tensioning Systems.

Our product range also includes Systems specifically designed for Offshore use including Hazardous Areas.

Project Title PP 02/07

Failure Mode and Effects Analysis (FMEA) of Construction Crane Safety Systems

Objective of Project

Using a methodology created by Robway we want to perform an FMEA on our existing product line with the result being categorization of the products into either an EN954 Safety Category or IEC61508 Safety Integrity Level.

Project Specification and Timetable

Project consists of capturing information on possible hazards on construction cranes from means such as brainstorming sessions, customer feedback, etc., determining the severity of the hazards, assigning a safety rating requirement, and then performing a review of product safety features and assigning a category or safety integrity level. This same methodology will also be used when developing new product standards. Project timeframe could be on the order of six months, however we have not gone through the complete process so the timeframe is not well defined at this point.

Personal Requirements

Analytical, general MS Office skills, communications with technical staff, detailed documentation.

Academic Qualifications

Undergraduate or Graduate studies in either mechanical or software engineering.

Other Requirements

(Detail any specific experience or requirements that the student should bring to the project)

Division and Contact Person

Jon Koval, Engineering Manager, Research and Development Department
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How to Apply

Applications "*quoting project title*" including resume and academic transcripts to be submitted by email to <mailto:tania.johnson@adelaide.edu.au>" ASAP