

FARAH AZLIN BINTI SHAMSUL KAMAR

Bachelor (Hons) of Electrical and Electronics Engineering

PROJECT AND RESEARCH INVOLVEMENT

Project Title: Image Stitching Using Harris Corner and SIFT Features

Image stitching is a process of combining multiple photographic images to produce a segmented panorama image. There is a need of choosing the right method of feature extraction in this application to perform a good quality of panorama. In this project, two methods were developed and being compared based on the performance of the final image formed.

Capstone Project (Integrated System Design Project)

Title: Autonomous Solar Car Racer

The focus on this project is to build a solar car which is able to run autonomously either in the presence of light or shaded region. The designed car is powered by solar panels under the sunlight, and being switched to battery source under the shaded area.

Engineering Team Project (ETP)

Title: Removable Piezo Sole Charger

In this team-based project, a shoe was designed with the capability to charge such devices while running. The piezo (discs) sole effect enables such generation of electric charge in response to the mechanical stress applied on it, while walking or running on the shoe.

Control System Project

Title : Voice-controlled Mobile Car

Designed a Mobile Car Robot constructed using LEGO NXT Mindstorms. The robot will detect voices directed to it and move based on the instructed directions.

SOFTWARE COMPETENCY



INTERNSHIP EXPOSURE

Place of Internship: SunEdison Semiconductor



Handling Preventive Maintenance (PM) in the production line.

Had a basic experience of handling Preventive Maintenance in which it is a type of maintenance that is regularly performed on equipment in order to lessen the likelihood of it failing.

Knowledge on piping and instrumentation diagram (P&ID)

Briefly studied the details on how to read the diagram and relate to the equipments.

Managing Purchase Requisition (PR) of the department

Exposed to the procedures of managing purchase requisition (PR) of items that needs to be ordered, including their quantity and the timeframe. PR document helps to notify the department about the items information and status.



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Current GPA/CGPA:
3.09/2.70



PERSONAL ACCOMPLISHMENTS



UTP ConvoFair Treasure Hunt 2011
Participated in one of the biggest event in UTP, ConvoFair.

Perfect Score UPSR 2012 - Facilitator
A charity based program that helps UPSR students in their study. About 12 schools in Perak involved in this program.



Kembara Sufi XI – Logistic Department
As one of the committees organizing Kembara Sufi, an Islamic concert featuring UNIC, Imam Muda Nazrul and Aizat Amdan which had been held in UTP.



UTP Sports Carnival 2013
Represented Electrical & Electronics Department in Ping Pong Tournament, the team managed to get third place from overall categories.

Ping Pong Club Tournament 2014
Participated in a tournament organized by coach of UTP Table Tennis Club and managed to get champion for ladies category.



MAZE Challenge Asia 2014
Participated in group of four UTP students, the event had been held in Sepang.

RELEVANT COURSES TAKEN

Electrical Engineering Core Courses

- Circuit Theory
- Network Analysis
- Digital Electronics 1 & 2
- Microprocessor
- Communication System
- Control System
- Electromagnetic Theory
- Analogue Electronics 1 & 2
- Structured Programming and Interfacing

- Signal and Systems
- Electrical and Energy System
- Power Systems
- Power Electronics
- Electrical Machines
- Digital Signal Processing
- Advanced Power System
- Advanced Power Electronics
- Advanced Electrical Machines

General Studies / Humanities / Language & Skills

- Academic Writing
- Introduction to Oil and Gas
- Islamic Studies
- Professional and Communication Skills
- Malaysia Studies
- Introduction to Management
- Health, safety and Environment
- Arabic Language

Engineering Mathematics

- Ordinary Differential Equation
- Vector Calculus
- Computational Method
- Probability and Random Process
- Data and Computer Network

Co-curricular

- Modern music
- Entrepreneurship
- Table Tennis
- Recreation and adventure

REFEREE

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