



NIK MOHAMAD AFIAT BIN MOHAMAD SHAFIE

MEng (Hons) Mechanical Engineering

First class honours holder
Fast learner & dedicated person
Detail-oriented person

OBJECTIVE

I am seeking employment with a company where I can utilize my knowledge and technical skills to help the company meet and surpass its goals. I am prepared to face competitive and challenging environment in order to serve for the company.

PERSONAL PROFILE

Mailing Address:

PT 1046,
Jalan Binaraya 7,
Taman Binaraya,
16150 Pasir Tumboh, Kelantan
Malaysia

Contact Info & Particulars

Age : 23
IC : 931117-03-5625
Nationality : Malaysian
Gender : Male
Religion : Muslim

Contact info & Particulars

Email: afiatshafie@yahoo.com
Phone : +6019-9368508
Education Status : Completed
Possess Own Transport: Yes
Availability: Available

EDUCATIONAL BACKGROUND



SEKOLAH KEBANGSAAN KOK LANAS, KELANTAN

2000-2005

Ujian Penilaian Sekolah Rendah
(UPSR) : 3A 2B



KOLEJ MARA KUALA NERANG, KEDAH

2011-2012

Foundation in Science and Technology
CGPA : 3.91/4.00



SEKOLAH MENENGAH KEBANGSAAN KOK LANAS, KELANTAN

2006-2009

Penilaian Menengah Rendah
(PMR) : 6A 2B



UNIVERSITI KUALA LUMPUR IPROM, KUALA LUMPUR

2012-2013

Level 1

MEng (Hons) Mechanical Engineering
CGPA : 3.89/4.00



SEKOLAH MENENGAH KEBANGSAAN DATO AHMAD MAHER, KELANTAN

2009-2010

Sijil Pelajaran Malaysia (SPM) :
9A 1B



BRUNEL UNIVERSITY LONDON

2013-2016

Level 2 until Level 5

MEng (Hons) Mechanical Engineering
First class honours
Graduated in July 2016

COMMUNICATION SKILLS

Malay

Written:

① ② ③ ④ ⑤ Excellent

Read:

① ② ③ ④ ⑤ Excellent

Speech:

① ② ③ ④ ⑤ Excellent

English

Written:

① ② ③ ④ ⑤ Excellent

Read:

① ② ③ ④ ⑤ Excellent

Speech:

① ② ③ ④ ⑤ Excellent

SOFTWARE COMPETENCY



Solidworks



Microsoft Visual Basic



Microsoft Office



Matlab



Catia V5



Ansys Fluent





Abaqus



ICEM CFD

ACADEMIC PORTFOLIO

PROJECT & RESEARCH

COURSES	DESCRIPTION
Major Individual Project 	<p>The study on the incorporation of nanomaterial fillers into polyvinylidene fluoride (PVDF) matrix in order to investigate its influences toward energy harvesting. PVDF is a piezoelectric material which is capable of producing output voltage. Two nanomaterial fillers used were carbon nanotube (CNT) and graphene oxide (GO) in order to study the improvement of the nanomaterials to the piezoelectricity of PVDF. However, due to incompatibility of solution preparation of PVDF/CNT and PVDF/GO, CNT and GO were found out to deteriorate the piezoelectricity of PVDF. This project provided me knowledge about how piezoelectric materials can produce output voltage and how incorporation of nanomaterial affects piezoelectricity of PVDF.</p>
Final Year Project (Group) 	<p>Designing a solar powered airship with the integration of design concept, propulsion, controls and solar power. I was in charge of control system of the airship where I had to use MATLAB and SIMULINK to make simulation for the dynamics of the airship. Besides, I also had to do the test flight by integrating control system and propulsion system of solar powered airship. The control system used was Pixhawk Autopilot. I had to make sure the airship is stable and moves according to the desired trajectory by using simulation and test flight. The simulation of</p>

the flight will be compared with the actual flight data in order to observe the effectiveness of the simulation. It was found out that the simulation of the flight was robust as the corresponding results of the simulation follow the actual flight data. This project provides me knowledge on how to model the simulation of solar powered airship by using MATLAB and Simulink. It also provides me hands-on knowledge on how to setup Pixhawk Autopilot with the propulsion system on solar powered airship.

EVENTS & ACHIEVEMENTS

Involved in Entrepreneurship Camp at Pulau Jerejak

This camp provided knowledge for me about business skills and strategies. The students were required to work together as a team to produce handmade products. It was a good opportunity for me to learn something new while improving my soft skills.

Member of Gerakan Sukarelawan Anak Kelantan (GERAK)

This is for a group of volunteers in Kelantan to establish and participate on events such as charity, awareness and others. This group made me realized that there are a lot of things that can be done as volunteers to help others.

Member of Himpunan Siswazah Kelantan (HIMSAK)

This is for a group of students from Kelantan in the universities. The purpose of this group is to help the students on developing their skills and leadership qualities before being employed.

REFEREES

FARBOD KHOSHNOUD



Lecturer and Supervisor
Department of Mechanical Engineering, Brunel University London

Email : farbod.khoshnoud@brunel.ac.uk

Contact No. : +44(0)1895265365

JIM SONG



Lecturer and Supervisor
Department of Mechanical Engineering, Brunel University London

Email : jim.song@brunel.ac.uk

Contact No. : +44(0)1895266692