

# DINI AMALINA BINTI ZAINOL ABIDIN

Bachelor of Materials Engineering (Hons.),  
International Islamic University Malaysia



## Mailing Address:

27, Taman Kelana, Jalan Langgar, 05460, Alor Setar, Kedah.

Contact No: +60133661779

Email: diniiamalina@gmail.com

## OBJECTIVE

Seeking a position with the opportunity to develop skills and obtain more beneficial experiences through practical work in related field of materials engineering. Thus increase my credibility to work in the future.

## PERSONAL INFORMATION

Age	24	Health	Excellent
Gender	Female	Marital Status	Single
Nationality	Malaysian	NRIC	920918-02-5028

## EDUCATION BACKGROUND

### International Islamic University Malaysia (2012-2016)

Bachelor of Materials Engineering CGPA: 3.044

### Center for Foundation Studies IIUM (2010-2012)

Engineering Foundation Programme CGPA: 2.923

### Sek. Men. Keb. Sultanah Asma (2007-2009)

Malaysia Certificate of Education (SPM) : 8As 2Bs

### Sek. Men. Keb. Sultanah Bahiyah (2005-2007)

Lower Secondary Assessment (PMR) : 8As

## WORKING EXPERIENCE

### Jabatan Kerja Raya – Internship (June 2015 – September 2015)

- Visit to new bridge construction project to study on the materials used
- Inspection on damaged building and study the materials used for surface treatment
- Visit factories and study the materials used to make bitumen for road tar
- Visit new road project
- Attended project meeting on monthly report
- Do some documentation works

## PROJECT EXPERIENCES

Project	Description
<b>Final Year Project 1 &amp; 2</b> Double Percolation in Poly(lactic acid) / Thermoplastic Polyurethane Filled with Carbon Black	<ul style="list-style-type: none"><li>• Produced green conductive polymer from PLA/TPU/CB composites with minimum CB content, by utilizing double percolation phenomenon.</li></ul>

	<ul style="list-style-type: none"> <li>Investigated the mechanical properties, electrical properties, morphology and filler dispersion states of PLA/TPU polymer blend filled with CB.</li> </ul>
<b>Integrated Design Project (IDP)</b> Time-controlling Deposition Cell	<ul style="list-style-type: none"> <li>Innovation of simple electrodeposition cell by connecting the cell with time controller so that the current will automatically cut off when the time is up.</li> <li>The cell also is ready with removable lid and improved wire connection to the electrodes.</li> <li>The shape of the cell was innovated to rectangular shape and was made from Pyrex glass.</li> </ul>
<b>Seminar</b> Carbon Nanotube/Semiconductor Junction for Photovoltaic Application	<ul style="list-style-type: none"> <li>An article related to the photovoltaic application with improved efficiency and low production cost of modules.</li> </ul>
<b>English for Academic Writing (EAW)</b> IIUM Engineering Students' Awareness of Their Learning Environment and Their Academic Outcome	<ul style="list-style-type: none"> <li>Questionnaire was distribute through social network to investigate the perceived effects of learning environment upon academic outcomes from the perspective of IIUM Engineering students.</li> </ul>
<b>Engineering Drawing</b> Drawing project	<ul style="list-style-type: none"> <li>Draw full components of compact powder using Alibre.</li> </ul>

### SKILLS AND PROFICIENCIES

Language		Proficiency	Description
English		Advanced	Speaking and Writing
Bahasa Melayu		Advanced	Speaking and Writing
Arabic		Basic	Speaking and Writing
Software		Proficiency	Description
Office Suite	Microsoft Office	Advanced	Primary desktop applications for Windows.
Programming Software	C++ Programming	Intermediate	Basic programming software
	Dev C++	Intermediate	
Technical Drawing	AutoCAD	Intermediate	Create 2D and 3D graphical
	Alibre	Intermediate	
Material Selection	Expert Choice	Basic	Choosing the best material
Mathematical	Matlab	Basic	Technical computing

### ACADEMIC COURSE TAKEN

<b>Materials Engineering Core</b> <ul style="list-style-type: none"> <li>Mechanics of Materials</li> <li>Manufacturing Process</li> <li>Materials Science &amp; Engineering</li> <li>Thermodynamics of Materials</li> <li>Solid States Physics &amp; Crystallography</li> <li>Materials Characterization</li> </ul>	<b>Fundamental Courses</b> <ul style="list-style-type: none"> <li>Electric Circuit</li> <li>Electronics</li> <li>Programming for Engineering</li> <li>Statics</li> <li>Dynamics</li> </ul> <b>Mathematical Courses</b>	<b>Human &amp; social Science</b> <ul style="list-style-type: none"> <li>The Islamic Worldview</li> <li>Islam, Knowledge &amp; Civilization</li> <li>Ethics &amp; Fiqh for Everyday Life</li> <li>Engineering Ethics Safety</li> </ul> <b>Others</b>
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<ul style="list-style-type: none"> <li>• Quality Control</li> <li>• Physical Metallurgy</li> <li>• Polymeric Materials</li> <li>• Composite Materials &amp; Processing</li> <li>• NDT &amp; Evaluations</li> <li>• Heat Treatment</li> <li>• Ceramics &amp; Glasses</li> <li>• Corrosion &amp; Degradation</li> <li>• Semiconductor Materials &amp; Processing</li> <li>• Materials Selection &amp; Design</li> <li>• Surface Engineering &amp; Tribology</li> </ul> <p><b>Elective Courses</b></p> <ul style="list-style-type: none"> <li>• Polymer Physics</li> <li>• Nanomaterials</li> <li>• Production of Metals</li> </ul>	<ul style="list-style-type: none"> <li>• Engineering Calculus 1 &amp; 2</li> <li>• Linear Algebra &amp; Differentiation Equation</li> <li>• Computational Methods &amp; Statistics</li> </ul> <p><b>Economics &amp; Management Courses</b></p> <ul style="list-style-type: none"> <li>• Introductory Economics for Engineering</li> <li>• Engineering Management 1 &amp; 2</li> </ul> <p><b>Language Courses</b></p> <ul style="list-style-type: none"> <li>• Quranic Language</li> <li>• Bahasa Melayu Kerjaya</li> <li>• English for Academic Writing</li> </ul>	<ul style="list-style-type: none"> <li>• Engineering Drawing</li> <li>• Workshop Technology</li> <li>• Seminar</li> <li>• Integrated Design Project</li> <li>• Engineering Lab I &amp; II</li> <li>• Material Engineering Lab I,II, III &amp; IV</li> <li>• Engineering Industrial Training</li> <li>• Final Year Project I &amp; II</li> <li>• Leadership &amp; Management</li> <li>• Family Management &amp; Parenting</li> <li>• Photography Skill I &amp; II</li> </ul>
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### EXTRA-CURRICULAR ACTIVITIES

Skills Developed	Level	Positions	Activity	Year
Leadership & Management	University	Secretary	Petrofac : Oil & Gas Career Talk	2015
	University	Members	Mahallah Aminah Block Representative Committee	2014
	Society	Main Committee	Enginius XIX: Communication in Working Environment	2013
	Department	Committee	Enginius XIX: Know Your Majoring	2013
Entrepreneurship	Department	Programme Manager	Enginius XX: Final Exam Stall	2014
Persuading & Community Services	Society/ Department	Participant	Raya Celebration	2012
Self-Development	University	Participant	Forum “Café Cinta”	2012

### REFERENCES

<p><b>DR. YOSE FACHMI BUYS</b>  Senior Lecturer, IIUM  +603 – 6196 6549  <a href="mailto:yose@iium.edu.my">yose@iium.edu.my</a></p>	<p><b>DR. NOORASIKIN SAMAT</b>  Senior Lecturer, IIUM  +603 – 6196 5768  <a href="mailto:noorasikin@iium.edu.my">noorasikin@iium.edu.my</a></p>
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