RESUME

Name	MAZZA NOR HADIRAH BINTI MD RESAT
NRIC	900717-10-5584
Field of Study	Chemical Engineering
Education Level	Bachelor Degree with honours
University / College	Universiti Malaysia Sabah (UMS)
Current Position	Junior Executive (Chemical & Process Engineer)
Years of Experience	-

Personal particulars	
NAME	Mazza Nor Hadirah Binti Md Resat
D.O.B @ I/C	17/07/1990 @ 900717-10-5584
AGE	24
GENDER	Female
RESIDENT ADDRESS	Lot 1454, Jalan orkid/lorong bahagia, Kg.Sijangkang, 42500 Telok Panglima Garang, Kuala Langat, Selangor Darul Ehsan
CONTACT	013-465 9562 (h/p) 017-810 6424 (h/p)
EMAIL	maza_dira@yahoo.com
RACE	Malay
RELIGION	Islam
NATIONALITY	Malaysian
MARITAL STATUS	Single
HIGHEST ACHIEVEMENT IN EDUCATION	• **Bachelor Degree in Chemical Engineering Universiti Malaysia Sabah** • Last CGPA: 2.62 • **Graduation Year: November 2013**
LAST WITHDRAWN SALARY	RM 1,800
LEAVING REASON (s)	
EXPECTED SALARY	RM 2,800 – RM3,500
PREFERABLE POSITION (s)	1. Research and Development 2. Processing 3. Production 4. Quality Control
PREFERABLE WORKING LOCATION (s)	Able to transfer between places anywhere in Malaysia
EMPLOYMENT HISTORY	**CHEMICAL & PROCESS ENGINEER – PRODUCTION DEPARTMENT** **TOPMARK PETROLEUM SDN BHD (3 February 2014 – Now)** • Control quality of the dewatered and recycled base oil so that it follows the minimum condition it should achieve(in terms of colour, water content, conductivity) • Control quality of recycled glycol so that it comply with the spec range (in terms of colour, conductivity, pH, and water content • Manage and deals with the operation of waste recycle treatment plant and related processes to meet the regulatory requirements. • Manages & supervisors the disposal of all schedule wastes in compliance to the applicable local rule & regulations. • Assess waste treatment plant in order to setting-up efficient, effective processes and maintaining them in the handling of large quantities of recycle oil and proper disposal of harmful waste through proper channel. • Ensuring that potential safety issues related to the project operator, the environment, the process and the product are considered at all stages.

	QUALITY CONTROLLER – QC DEPARTMENT **G.K INGREDIENTS (M) SDN BHD (13 December 2013 – 31 January 2014)** • Control quality of all products starting from the raw material to the finished products • Check and manage all stocks and inventories • Supervise all the outgoing products • Enhance safety measures and cleanliness of the plant **ADMIN ASSISTANT – OUM OPERATION & MARKETING DEPARTMENT** **Sunrise Training and Retraining Centre Sdn Bhd (3 October 2013 – 1 November 2013)** • Handle all student registration matter • Prepare documentation and administration matter for OUM operation • Marketing and operation crew for OUM engineering courses for Executive Diploma programs (Plant engineering, Boiler Technology & Electrical Engineering) • Front desk receptionist and telephonist for all walk-in enquiries for OUM • Handle management matters regarding classes, tuition fees collection and students requirements **PRACTICAL STUDENT (Industrial Training – 3 months)** ***Continental Tyre PJ Malaysia Sdn Bhd (June 2012 – August 2012)*** • Prepared a library management system for the Tyre Specs and documentation • Prepared a system to link the tyre making for each shift, the tyre that was sent to repair section and the one sent to inventory for storage. The system worked as a live data provider so that the tyre's data from the factory can be sent directly to the Product Industrialization Department so that the problem arising for every production day can be solved simultaneously without having to go to the shop-floor. **PART TIME POSITIONS** **Prasekolah JAIS Kg. Jawa *(May 2009 – early July 2009)*** • Substitute teacher for 1 subjects (Pendidikan Agama Islam)
EDUCATIONAL HISTORY	***Higher Education: Universiti Malaysia Sabah*** • Bachelor Degree in Chemical Engineering • CGPA: 2.62 • Graduation held in 2013 ***Pre-University: Penang Matriculation College(2008 – May 2009)*** • Science Physics • CGPA: 3.23 • MUET: Band 4 ***High School (1): SMK (A) Kuala Selangor, Selangor (2003 – 2005)*** ***High School (2): SBP Integrasi Sabak Bernam, Selangor (2006 – 2007)*** • Sijil Pelajaran Malaysia (SPM), 8A 4B (5A1 3A2 4B3) • Pernilaian Menengah Rendah (PMR), 9A - Arabic ***Primary school: Sekolah Kebangsaan Sijangkang(1997 – 2002)*** • Ujian Pernilaian Sijil Rendah (UPSR), 5A

<table>
<tr><td>CO-CURRICULUM</td><td>
2009 – Present (Universiti Malaysia Sabah)

Secretariat of Jawatankuasa Kebajikan Mahasiswa Kolej kediaman AB (2009 – 2012)
Participant of National Chemical Engineering Symposium-NACES (2009)
Participant of 3rd Chemical Engineering Academic Quiz (2010)
Participant of Professionalism in Engineering Talk (2010)
Committee member of Chemical Engineering Appreciation Night (2010)
Participant of Career Day (2010)
Secretariat of UMS Mandarin Club (2010 – 2011)
Committee member of Chemical Engineering Appreciation Night (2011)
Committee member of 4th Chemical Engineering Academic Quiz (2011)
Committee of Transportation Unit Chemical Engineering Family Day (2011)
Participant of Sukan Piala Dekan SKTM-1st Runner up in Bowling (2011)
Committee member of 7th Malaysian Chem-E-Car Competition (2012)
Participant of Kejohanan Perahu Naga UMS (2012)

2003 – May, 2009 (Secondary School & Matriculation College)

Among top students in PMR and SPM
Committee member of Persatuan Puteri Islam (2004 – 2005)
Committee member of Skim Pinjaman Buku Teks (2004 – 2005)
Participant of Perkhemahan Puteri Islam Peringkat Negeri Selangor (2004)
Facilitator of Perkhemahan Puteri Islam Peringkat Daerah Kuala Selangor (2004)
Participant of Kawad Kaki competition (2004 – 2009)
School Prefect – Penolong Ketua Biro (2006 – 2007)
Participant of Program Latihan Khidmat Negara-PLKN (Kump.1 Siri 5 Sesi 2008)
Participant in Projek Pameran Kemerdekaan in Matriculation College (2008)
Facilitator for Chem-friend Program in Matriculation College (2008 – 2009)
Participant of Math-mate Camp in Matriculation College (2008 – 2009)

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<tr><td>LANGUAGES</td><td>
Languages (Spoken & Written Proficiency : Best = 10 – Worst =1)
<table>
<tr><th>Language</th><th>Spoken</th><th>Written</th></tr>
<tr><td>English</td><td>7</td><td>8</td></tr>
<tr><td>Bahasa Malaysia</td><td>10</td><td>10</td></tr>
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<tr><td>SKILLS & ABILITIES</td><td>
Personal Strength
My career goal is to work very hard and strive to achieve to be the best I can be in my career. I also want to obtain a career position in a thriving company, working in a safe, friendly, and productive environment, where I can use my skills to the best of my ability that would benefit me, the company and all those around me. I enjoyed reading, watching movies and listen to music during my free time. Since I have been transferring to a lot of places, I am more friendly to people and I love making new friends. Hence, I can easily be comfortable with people around me when I got to a new place.

Personal Behaviours

Positive thinking
Skills in handling multiple critical assignments simultaneously
Good in communication skills
Good response to the supervisor orders and interacted well with people at all levels.

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	• Good team work. • Open for Suggestion/ Comment/ Idea. • Can work under pressure and meet tight datelines. **Computer Skills** • Microsoft Excel • Microsoft Word • Microsoft PowerPoint • Microsoft Visio 2010
PLANT DESIGN PROJECT	**Title: Biodiesel from microalgae (Chlorella Vulgaris)** **Supervisor: Engr. Dr. Rachel Fran Mansa** The design project we conducted includes all parts needed to make a biodiesel plant. The first assignment for the design project is that we need to conduct a feasibility studies. The studies allow us to understand the market demand, the market share & opportunity and at the same time we can make a decision that our plant is feasible. The next stage then includes all basic needs for building a biodiesel plant such as the HAZOP & HAZAN studies, a thorough mass & energy balance, the mechanical design for each independent process involved (individual task) and lastly we need to do the optimization of the plant by conducting the pinch analysis. The task is basically challenging for us since the microalgae-based biodiesel plant has not been commercialized yet. Therefore, we need to do a thorough study to prevent any mistakes during the process. As for our plant, we need to choose the best method as it need to be cheap and effective mainly in the extraction of oil from algae and the separation of the three extraction product namely oil, algae biomass and water. For our plant, we reuse and recycle all products and by-product to maximize the profit and we also have a direct supply of carbon dioxide from power plant.
FINAL YEAR PROJECT	**Title: The effects of process formulations on the encapsulation of palm-oil (high oil content) in calcium alginate capsules by using inverse gelation technique** **Supervisor: Dr. Sariah Abang** The studies in encapsulation are crucial to make a better life. By encapsulation, we can prevent pungent aroma and unpleasant taste of drugs and oil from entering our senses. Still, the emerging encapsulation industries are having problems in assuring the shape, size and quantity of the product. The encapsulation method used for all these days keep giving headache to the producer. As to give a better solution for this problem, we conduct the experiment on the latest encapsulation method: the inverse gelation method. Rather than using the standard gelation technique where we drop the alginate into the oil/alginate mixture, we inverse the whole process so that we drop the oil/calcium chloride emulsion into the gelling bath consist of alginate solution and surfactants. By conducting experiments with different concentration of gelling bath and oil emulsion with increasing time (5,7,10,15,30 & 50 minutes), we come to a conclusion that the method is very assuring for a large production since the sphericity test shows that the factor is less than 2.5 which means the beads produced are spherical. As the concentration of alginate increases, the mean diameter will decrease as the impaction will be sooner and the coating will be thinner than the less concentrate solution as the beads need to go further before having a final membrane coatings. On the other hand, the concentration of calcium chloride in the oil emulsion gives increments to the mean diameter as the concentration increases. The maximum dripping time is 60 seconds with a range of 80 – 100 mm dripping height Is the set-up procedures that needed to be fixed as well as the humidity and temperature control.

OTHERS RELEVANT INFORMATION	**Availability to Start Working** • ***On one month notice***
REFERENCE	1. Vedhambigai Krishnan Administrator SUNRISE ACADEMY 22, Jalan Kasuarina 3/KS07, Ambang Botanik, 41200 Klang, Selangor **Email**: suntech.oum@gmail.com **Phone**: 03-33251569 / 016-3519068 2. Engr. Dr. Rachel Fran Mansa Chemical engineering lecturer, Chemical engineering programme, School of engineering & information technology, Universiti Malaysia Sabah, Beg Berkunci 2073, 88999 Kota Kinabalu, Sabah. **Email**: rmansa@gmail.com / rfmansa@ums.edu.my **Phone**: (+6010) 9313678 3. Dr. Sariah Abang Chemical engineering lecturer, Chemical engineering programme, School of engineering & information technology, Universiti Malaysia Sabah, Beg Berkunci 2073, 88999 Kota Kinabalu, Sabah. **Email**: sariah@ums.edu.my **Phone**: (+6010) 2907092 4. Miss Nanie Purchasing Department G.K INGREDIENTS (M) SDN BHD No 20, Jalan Angklung 33/20, Seksyen 33 Shah Alam Technology Park Off Jalan Bukit Kemuning 40400 Shah Alam, Selangor **Email**: gkingredients@gmail.com **Phone**: (+603) 51228418/ (+603) 51225921 5. Puan Sabariah Binti Mohd Yunus Senior Engineer Topmark Petroleum Products SDN BHD, Lot 102521 (PN 24351), Jalan Sungai Pinang 5/3, 42920 Pulau Indah Mukim Klang, Daerah Klang, Selangor **Email**: sabariah@hiaphuat.com **Phone**: (+603) 31023169