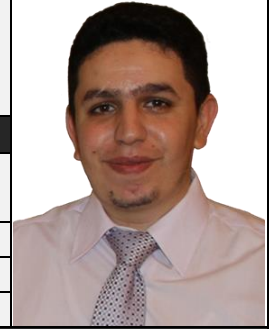


Rami Abd Al-Razzaq Khalil

Mechanical design and production engineer



CONTACT INFORMATION

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| Present Address: | B-20-2, KL Palace Court Condominium, Jalan Kuchai Jaya, 58200, Kuala Lumpur, Malaysia. |
| Mobile: | +60 18 258 253 8. |
| E-mail: | eng_ramikhalil@gmail.com. |
| Website: | engramikhalil.com. / lb.linkedin.com/in/engramikhalil |

CAREER OBJETIVE:

- Developing my career in a multinational or growing company where my academic background could be applied as well as have my teamwork and professional skills developed.
- Studying, developing solutions and planning the stages of production.
- Designing or modifying manufactured products to suit the requirements of the market.

PROFILE:

Almost six years experience in CNC machine mechanical design field, especially in Water-jet machines (Water Cutting Systems) design and analysis fields, and also a very good experience in field of additive manufacturing and rapid prototyping technologies especially in FDM – Fused Deposition Modeling technique. More than one year in research and mechanical design of downhole circulation tools' mechanism and components. More than one year in design, manufacturing and analysis of plastic molds in local industrial companies. A good experience with PLCs (Programmable logic controllers) especially with “LG or LS” and “Siemens” devices. A very good experience with pneumatic & hydraulic circuits design. A good experience in project management according to PMI standards.


PERSONAL INFORMATION:

| | |
|--------------------------|--|
| Nationality: | Palestinian (PL). |
| Gender: | Male. |
| Date and Place of Birth: | April 9, 1987 – Damascus, Syria (SAR). |
| Domicile Country: | Palestine (PL). |
| Present Location: | Malaysia (MY). |
| Marital Status: | Married. |

EDUCATION:

- Studied the first year of Master Degree in Industrial Engineering at Faculty of Mechanical & Electrical Engineering FMEE, University of Damascus (Syria).
- Bachelor of science in Mechanical Design Engineering (Production Engineering) at Faculty of Mechanical & Electrical Engineering FMEE, University of Damascus (Syria) in 2011 with “Very Good” rating (GPA 72.21%).
- Diploma in Manufacturing and Product Design at Alison for online international education. Certificate number is: 349-3697158.
- Certificate of Accomplishment: Product Design at Alison for online international education. Certificate number is: 431-3697158.
- Certificate of Accomplishment: PMI-PMP (Project Manager Professional), exam preparation course at Pyramid Consulting – Australia.
- Certificate of Accomplishment: Principles of Scientific Research Workshop 2014 at Syrian Society for Scientific Research.
- Certificate of Achievement: Mobile Robotics in collaboration with Swinburne University of Technology and Open2Study platform. Final score is: 93%.
- TOEFL “Test of English as Foreign Language” PBT – (Score: 513 – TWE: 4), year 2011.

WORK EXPERIENCE: FROM 2010 TO PRESENT – ALMOST 6 YEARS

| Company | Period | Contact Information |
|--|------------------|---|
| MIT Innovations Sdn Bhd  | 6/2016 - Present | Phone: +6 (03)89983008 Fax: +6 (03) 8998 3009 Email: info@mit-technologies.com Website: mit-technologies.com |

Duties as Senior Mechanical Design Engineer:

- Mechanical Design, research, and study of the downhole circulation tools mechanisms and components to comply with the various drilling environments and specifications according to the modern international Oil and Gas standards.
- Prepare and produce all design documentations including patent papers, detailed manufacturing and assembly drawings, FEA and CFD reports, BOM lists, specifications sheets, and assembly and operations manuals as

well as control the design change process by managing the database and the revisions of the designed components.

- Collaborate with management, manufacturing, and operation departments on product development plans to create designs that are efficient and cost effective.

| Freelance Work | Period | Contact Information |
|---|------------------|--|
| Working as a freelance mechanical design engineer | 8/2012 – Present | Phone: +60182582538 Email: eng.ramikhalil@gmail.com Website: engramikhalil.com |

Duties as a Freelancer Mechanical Design and Production Engineer:

- Studying, developing solutions and planning the stages of production.
- Designing or modifying manufactured products to suit the requirements of the market.

Freelance engineering projects:

EPIC Advanced Dual Arm Robot:

“Epic” is an advanced model of a complex mechanical design dual arm robot, it consists of two kinematic open chains, and each chain has six degrees of freedom (DOF) all of them are revolutes.

Project link: <http://engramikhalil.com/epic-advanced-dual-arm-robot.html>

AKIRA Desktop Serial Robotic Arm:

"AKIRA" is a designed model for a desktop robotic arm, it's a serial robot with open kinematic chain that has four and a half degrees of freedom, and all of them are rational. This robot is classified as one of pick and place robots.

Project link: <http://engramikhalil.com/akira-desktop-serial-robotic-arm.html>.

AROURA 3D Mono-Colored Printer:

“AROURA” machine is a mono-colored 3D printer has been designed using of the additive manufacturing techniques regarding the rapid prototyping process. This is technique known as (Fused Deposition Modeling – FDM). It can be used for the printing purpose of 3D complex objects.

Project link: <http://engramikhalil.com/3d-mono-colored-printer.html>.

SPYDRO Robot:

“SPYDRO” robot is a six armed robot can be useful in the fields of dangerous nature and the space science fields, it also can be used in the military fields as a method of spying and another special operations.

Project link: <http://engramikhalil.com/spydro-robot.html>.

ECHO 3D Multi-Color Printer:

“ECHO” machine is a multi color 3D printer has been designed using of the additive manufacturing techniques regarding the rapid prototyping process. This is technique known as (Fused Deposition Modeling – FDM). It can be used for the printing purpose of 3D complex objects.

Project link: <http://engramikhalil.com/3d-multi-color-printer-machine.html>.

ARMO Industrial Parallel Robot:

“ARMO” is an industrial parallel robot with five degrees of freedom (DOF), it's a mechanism mostly used in industry and manufacturing field for automatic manipulating, assembling, welding, painting, etc.

Project Link: <http://engramikhalil.com/industrial-parallel-robot.html>.

Rapid Prototyping – small 3D Printer:

A small size 3D Printer, a kind of Rapid prototyping machines -RP, the work area is considered as a circle which its diameter is (20 cm) and the maximum value of height, which is represented by (Z) axis, is (160mm).

Project Link: <http://engramikhalil.com/rapid-prototyping---3d-printer-machine.html>.

Laser Cutting System Machine:


A small size laser cutting machine with low laser power. The work area for this machine is (50cmX30cmX10cm). This machine has three axes (X,Y,Z).

Project link: <http://engramikhalil.com/laser-cutting-system.html>.

Industrial Robotic Arm:

An industrial robotic arm with 5 axes. It is a mechanism mostly used in industry and manufacturing field for automatic manipulating, assembling, welding, painting, etc.

Project Link: <http://engramikhalil.com/industrial-robotic-arm.html>.

| Company: | Date: | Contact Information: |
|--|------------------|--|
| “COMEC” company for automation and CNC systems.  | 8/2010 – 8/2012. | Phone: +963 11 5430813 Fax: +963 11 5430814 E-mail: info@comec-cnc.com Website: www.comec-cnc.com |

Duties as a Mechanical Design and Production Engineer:

- Putting the suitable CNC cutting machines specification according to the markets requirements :
 - The used standard plates in the market, which is cut by every size of CNC cutting machine including length,

width, and thickness.

- Maximum cutting speed with minimum operation time.
- Cost effective, comparing with other competitor.
- Designing a CNC cutting machines components, including studying by classical or modern methods using suitable software such as Autodesk Inventor professional, Automation Studio, and FESTO FluidSIM.
- Looking for & choosing new sources and vendors for some components, from the technical view (quality, lifetime, etc.) In addition, decide in cooperation with financial management to choose the best choice.
- Exporting manufacturing layouts for workshops.
- Developing company products according to the feedback s and last researches.

Achievements:

- I designed the Abrasive Transmission System for all water jet machines which consists of two parts; the abrasive tank system with upper tank and lower compressed tank, and the improved Abrasive Feeder. The pneumatic means was used as a method of transferring the abrasive to the 20% developed abrasive feeder which works depending on a stepper motor and a set of sensors.
- I improved and simplified the mechanical mechanisms of the medium size (3m*1.5m) laser cutting machine that they can easily manufactured, assembled, tested and shipped.
- I was a member of the designers and developers team who created the “Infinity Series” of water jet machines which considered at that time as the biggest water jet machines in the company. And so, I was rewarded by 10% addition in salary.

| Company: | Date: | Contact Information: |
|---|-------------|--|
| “Al-Battal” company for moulds design & manufacturing | 2009 – 2010 | Mobile: +963 944 313643 +963 933 211174 |

Duties as a Mechanical Design Engineer:

- Drawing and design the product using SolidWorks software and other hardware measuring tools.
- Calculating the shrinkage of the product after molding and its drafts.
- Design the plastic moulds for products in the suitable way regarding the plastic product conditions and material.
- Monitoring the performance of CNC machines at the factory during the implementing of the plastic product mold to ensure that work is done as well as possible.

ACADEMIC PROJECTS:

Faculty of Mechanical and Electrical Engineering:

- 4th year project about robot arm under title “Theoretic & Designing Study of Robot Arm” which was a robotic arm works using the pneumatic method with four degrees of freedom (DOF). The project got 90% as a mark.
- 5th year project about Stewart’s platform under title “Design & Executing Study of a Special Kind of Parallel Robots -Stewart Platform-” which was a six degree of freedom parallel robot works using six DC linear motion motors and controlled by means of MATLAB software and PLC. The project got 95% as a mark.

PUBLICATIONS:

- “Robotics: Mechanics, Mathematical Analysis and Control”, ISBN: 9786050354591, Narcissus for self-publishing, Arabic language, 274 pages.

LANGUAGES:

- Arabic (Mother tongue).
- English (fluent in read, spoken and written English), TOEFL (PBT): 513, TWE: 4.
- French (Elementary).

ENGINEERING PROGRAMS:

| Program: | Experience: |
|--|--|
| Inventor program from “Autodesk” company. | Excellent. |
| Autodesk Nastran in-CAD from “Autodesk” Company | Very Good |
| Autodesk CFD from “Autodesk” company | Very Good |
| SolidWorks program from “Dassault System” company. | Very Good. License form “Human Recourse Development Center -HRDC-” in 2007. |
| Automation Studio program form “Famic Technologies” company. | Excellent. |
| Festo FluidSIM program form “FESTO” company. | Excellent. |
| HyperMill program form “Autodesk” company. | Good. License form “Al-ma’moon international center” in 2010. |
| PowerMill program form DellCAM company. | Good |
| Siemens Step7 PLC Program from “Siemens” company. | Medial. |
| KGL-WIN PLC program from “LG (LS)” company. | Good. |

MANAGERIAL AND ADMINISTRATIVE PROGRAMS:

| Program: | Experience: |
|-----------------------------------|-------------|
| JobBOSS Program (Edition 11.3.2). | Good. |
| Synergy. | Excellent. |

PROJECT MANAGEMENT PRGRAMS:

| Program: | Experience: |
|-------------------------------|-------------|
| Microsoft Project 2007 – 2016 | Good |

GENERAL COMPUTER SKILLS

| Software / Hardware: | Experience: |
|--|-------------|
| MS Office (Word, Excel, Power Point, Outlook). | Very Good. |
| Use of internet skills and correspondences. | Very Good. |
| General hardware knowledge. | Medial. |

SELF-ABILITIES:

- Self-directed and highly motivated.
- Fast learner.
- Team player.
- Ability to work and perform under work pressure and meet deadlines.

HOBBIES:

Traveling, Reading, Drawing, Computers, Internet and Sports.

REFERENCES:

| Name: | Job Title: | Contact Information: |
|-----------------------|--|--|
| Eng. Ahmad Shubat | Operation manager at “MIT Innovation Sdn Bhd” - (Malaysia MY) | Mobile: +60 183914388. Email: eng.ahmad.shbat@gmail.com |
| Eng. Anas Ellieje. | Mechanical design engineer at “Ministry of Transportation” – (Syria SAR). | Mobile: +963 966990945. E-mail: hbib_6@hotmail.com. |
| Eng. Muaffak Bostani. | Mechanical design engineer at “Al-Fanar Group” - (Saudi Arabia KSA). | Mobile: +966 545625244. E-mail: rmuaffak@hotmail.com. |
| Eng. Ammar Damani. | Certification center officer at “SGS” Group (United Arab Emirates UAE - Dubai). | Mobile: +971508172150. E-mail: ammar.damani@gmail.com. |