

Dear Sir/Mam,

I am Dr. Engineer Hany Arnaoot; I am Currently Lecturer at AIET. I served for 16 years as Egyptian navy Officer, 7 out of them as a researcher at Egyptian navy research and calibration Institute. During my time in this role, I gained both academic and field experience (Ph.D.in autonomous ships control, calibration, reverse engineer, programming, hydrographic survey, ship firefighting and damage control) and I participated in many major projects and researches.



I have been an active electronics and mechanics hobbyist since my early teens. Which had a great impact on my experience.

I am ready for unpredictable work hours, way of living and fast paced environment. I give a high attention to details and an excellent problem solver; I have the ability to multi-task and enthusiastic attitude, as I spent most of life as a navy officer.

My Ideal Job would be a (researcher, designer, Engineer) for (navy, marine, unmanned vehicle) that will make use of experience previously mentioned.

Personal Data:

Name	: Arnaoot, Hany Mohamed Elsayed
Date of Birth	: May 12, 1981
Age	: 38 years
Nationality	: Egyptian
First language	: Arabic
Second language	: English
Address	: Egypt, Alexandria, Moharam Bek, Ghate al Saeady Alshahida Om Saber Street, building No.9 Borg Al Amal, second floor, flat No. 3
Cell Phone No.:	: 002 010 684 85 69
E-mail	: hanyarnaoot@yahoo.com hanyarnaoot@hotmail.com

English Test score:

- 1- Teofel iBT, test date Fri Nov 04 ,2016 , score 81 (Reading 21 points, Listening 22 points, Speaking 18 points, writing 20 points).
- 2- ILETS Academic, test date August 20, 2016 , score 6.0 B2 (Listening 7.0, Reading 6.0, writing 5.5, Speaking 6.0).

Education:

- Doctor of Philosophy with thesis entitled "**Design of Navigational Control System Including Ship Movement Dynamic Effects on Object(S) Detection**", Faculty of engineering, Portsaid University, Egypt, 2019.
- Doctor of Philosophy Degree Credential evaluation by world educational service organization, USA, 2019.
The link to digital badge that certifies World Education Services (WES) has evaluated the associated academic qualification.
<http://t.cred.ly/1/e553fab2-5c41-42ea-a56d-389b97ff4fa6>
- Master of Science in Mechanical Engineering with thesis entitled "**Model Reduction of Control System Considering Parameter Sensitivity**", Faculty of engineering, Arab Academy of science and technology and maritime transport, GPA 3.12, Egypt, 2010.
- Master degree Credential evaluation by world educational service organization, USA, 2011.
- Bachelor of Mechanical Power Engineering, Military Technical College, Ministry of Defense, grade very good, GPA 3.59 Egypt, 2003.
Graduation Project title: Design of Marine Diesel Engine.

Papers Published:

- 1- Gamal Zaghloul, H. Arnaoot, *Simulation of a Laser Measurement System LMS Sensor Mounted on a Moving Vehicle Detecting Moving Obstacles*. Proceedings of the 16th International Conference on Aerospace Sciences and Aviation Technology, 2015. 1: p. 11.
- 2- M. Mosleh, Gamal Zaghloul, H. Arnaoot, *An Alternative Method to Simulate Three-Dimensional Point Scan Sensors aboard Moving Vehicle*. Proceedings of the 11th International Conference on Electrical Engineering, ICEENG 2018.

Courses I Can Teach:

- 1- Automatic control.
- 2- mathematics.
- 3- Mechanics.
- 4- Engineering Drawing and Autocad.
- 5- Physics.
- 6- Embeded system PLC ,Arduino.

7- vibration

Courses I Taught:

- 1- Embedded system (PLC ,Arduino).
- 2- Mechanical vibration.

Courses I passed:

- 1- Short instructor course for commanders at Egyptian Navy institute for naval studies 2015.
- 2- Carl Zeiss, CALYPSO Co-ordinate Measuring Machine operation Course Egypt, 2011.
- 3- Advanced damage control officer course for surface ships, Booz Allen & Hamilton, Egypt, 2010.
- 4- Ship second engineer, Egyptian Navy, Egypt.
- 5- Basic officer fire fighting and damage control for surface ships, Booz Allen & Hamilton, Egypt, 2003.

Jobs History:

- 1- Currently, **Lecturer** at AIET Alexandria Higher Institute of Engineering & Technology (AIET) 2020 till now.
- 2- Head of Calibration and inspection department in ***Egyptian Navy Research and Calibration Institute*** 2017: 2019.
- 3- Head of lifting equipment's inspection Laboratory in ***Egyptian Navy Research and Calibration Institute*** 2015:2017.
- 4- Head of mechanical Calibration Laboratory in ***Egyptian Navy Research and Calibration Institute*** 2014:2015.
- 5- Head of Engineering Drawing in Egyptian Navy Research and Calibration Institute 2012:2014.
- 6- Chief engineers officer of a ship battalion 2010:2012.
- 7- Commanding officer of a naval base workshop 2006:2010.
- 8- Chief engineer officer of a coastal mine hunter and hydrographic survey vessel 2003:2006.

Experience:

- 1- Ship second engineer.
- 2- Marine vessels overhaul planning and execution.
- 3- Fiber glass vessel dry dock overhaul.
- 4- Ship building supervisor, May 2011 to December 2011, VT Halter marine, Pascagoula, USA.
- 5- Mechanical equipment, electric equipment and load cells calibration engineer.
- 6- Hydrographic survey.

Skills:

1- Software development Skills:

- A- Visual basic .net.
- B- Crystal report.
- C- Asp.net VB.
- D- SQL and SQL server basic Administration.
- E- Interfacing multiple device skill (parsing data analysis and creating order via communication port e.g. serial port, Ethernet...), an interface with sick 221 Laser measurement system was created.
- F- Data acquisition system operation (Basic knowledge with National Instrument DAQ Systems).
- G- Creating educational and promotional videos using Camtasia software.
- H- C++
- I- Microsoft Office, windows, network.
- J- (Visual basic 6.0, Microsoft DOS, Microsoft BASIC (GW Basic, Quick Basic...)).

2- Embedded systems

- A- programmable logic controller (PLC)
- B- Arduino programming (Arduino, ESP Node 8266, EOS 01, 2.4" LCD,...).
- C- Basic circuit design using Eagle software.
- D- Assembly and soldering electronic component.

3- Systems modeling.

- A- Mat lab (general and automatic control tool box).
- B- AutoCAD (2D and 3D) drawing.

4- Reverse engineering

- A- Dimension Measuring using CNC Coordinate measuring machine (Carl Zeiss, DURAMAX 500).
- B- Material mechanical properties destructive testing e.g. (tensile, compression, bending, shear and impact).
- C- 3D printing using powder prototype (3d cooperation, ZPrinter® 650).
- D- 3D object scanning with 3D laser scanner and stereo vision scanner
- E- Bruker tiger 8 x-ray metal analyzer operation.

5- Inspection Skills

- A- Wire and pipes inspection for cracks and continuity using Intros electro-magnetic wave system.
- B- Cranes load testing for safe operation using water bags (performed a 120 ton crane test).

- C- Ship plate thickness measuring.
- 6- Calibration Skills
 - A- Calibration of mechanical measuring equipment
 - B- Calibration of electrical measuring equipment
- 7- Working under pressure, commanding, administrating and communication ability skills (16 years of service in the Egyptian navy, commander).
- 8- Teaching Skill (current job as lecturer).

Major Project:

- 1- Programming of ground station control software of an autonomous ship.
- 2- Design, programming and Implementation of naval war simulator.
- 3- Ship building supervisor of 1.2 billion US dollar contract to provide Egyptian Army with 4 ambassador class battle ships, May 2011 to December 2011, VT Halter marine, Pascagoula, USA.
- 4- Design, programming and Implementation of automation system for calibration process management in the Egyptian navy research and calibration Institute.
- 5- Design, programming and Implementation of automation system for human resource management for the Egyptian navy research and calibration Institute.
- 6- Programming of Clinics management system.
- 7- Programming of local website to store, search and retrieve of work documents and task follow up for the Egyptian navy research and calibration Institute (Automated Archive System).
- 8- Design of hydro-test system(a system that measures both pressure and temperature during pressure test inside a container) that sends the measured data to a PC through wifi for log and analysis



جامعة
بورسعيد



شهادة دكتوراه



تشهد كلية / الهندسة

أن / هانى محمد السيد ابراهيم محمد ارناءو ط

رقم قومى / ٢٨١٠٥١٢١٣٠٠١١٩

المولود فى / الشرقية بتاريخ / ١٩٨١/٠٥/١٢ وجنسيته / مصرى

الدرجة العلمية / دكتوراه الفلسفة فى هندسة القوى الميكانيكية

موضوع الرسالة / تصميم منظومة ملاحية آلية متضمنة التأثيرات الديناميكية لحركة السفينة "على تحديد الاهداف"

التخصص الدقيق / هندسة القوى الميكانيكية

وقد اعتمد مجلس الكلية نتيجة إمتحانه فى / ١٤ ابريل ٢٠١٩

ومجلس الجامعة فى / ١٦ مايو ٢٠١٩ بقرار رقم ٥٩٨



عميد الكلية

أ.د/ حسن محمد حسن ابراهيم

تاريخ القسيمة

٢٣-٥-٢٠١٩

وكيل الكلية

للدراسات العليا والبحوث

أ.د/ هبة السيد الكيلاني

رقم القسيمة

١٠٧٠٩٢٥

أمين الكلية

رقم الطالب بالقرار

١

الدراسات العليا

تحريرا فى

٢٣-٥-٢٠١٩



CREDENTIAL EVALUATION AND AUTHENTICATION REPORT

Name: ARNAOOT, Hany Mohamed
Date of Birth: May 12, 1981

Date : October 24, 2019
Ref#: 4260927/mfb
Page: 1 of 6

The names on one or more of the academic credentials submitted for evaluation differ from the name indicated above.

U.S. EQUIVALENCY SUMMARY

Bachelor's and master's degree and earned doctorate from a regionally accredited institution

Second Evaluation Report (original completed on September 19, 2011)

CREDENTIAL ANALYSIS

- | | |
|-----------------------------------|---|
| Name on Credential: | Hany Mohamed El-Sayed Ibrahim |
| Credential Authentication: | Documents were sent directly by the institution |
| Country: | Egypt |
| Credential: | Bachelor of Science |
| Year: | 2003 |
| Awarded By: | Ministry of Defense and Military Production |
| Institution Attended: | Military Technical College |
| Admission Requirements: | General Secondary Education Certificate |
| Length of Program: | Five years |
| Major: | Mechanical Engineering |
| U.S. Equivalency: | Bachelor's degree |





Certificate

The Arab Academy for Science, Technology
& Maritime Transport

Certifies that

HANY MOHAMED EL SAYED IBRAHIM ARNAOOT

Date of Birth : 12/5/1981

Nationality : Egyptian

**Has been awarded a Master of science in
Mechanical Engineering**

College of Engineering & Technology

July 2010

With thesis entitled

Model Reduction of Control System Considering Parameters Sensitivity



Dr. Fatma Zada

Dean of Admission & Registration

Date : 09/05/2011

MPS 27/6-1

No. 1698/11/EG

Page: #5.036.074



TouchSafe®



CERTIFICATE

Military Technical College hereby confirms that

Eng. *Hany Mohamed El-Sayed Ibrahim*

Born in *Sharkia* On *12 / 5 / 1981*

has been conferred upon the degree of

Bachelor of Science

in *Mechanical* Engineering on July, 2003

(*Mechanical Power*)

with the grade of *Very Good.*

 (*A. Fahmy*)

Maj. Gen. Prof. Dr. Ismail Abdel-Ghafar Ismail Farag
Commandant of the Military Technical College



Cairo in *30 / 7 / 2010*



*The Egyptian Navy Training Department
proudly presents this*



TRAINING CERTIFICATE

To

LT Hany Mohamed El Sayed Ibrahim

ID No. 28105121300119

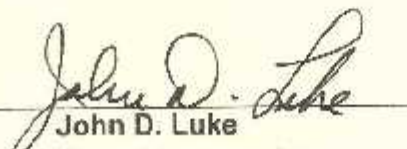
for successfully completing the

Advanced Damage Control Officer Course


and has been tested on the contents, as required.

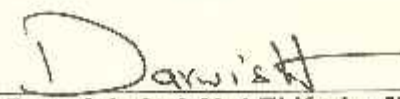
*This training, as well as the associated testing,
was completed on*

May 12, 2010


John D. Luke

In-Country Team Program Manager


Rear Admiral Ali Ali Abd El Hameed Arafa
Commander, Fleet Training Command
Egyptian Navy


Rear Admiral Abd El Kader Mortada Darwish
Chief of Naval Training
Egyptian Navy



*The Egyptian Navy Training Department
Proudly presents this*



TRAINING CERTIFICATE

To

LTjg Hany Mohamed El Sayed Ibrahim

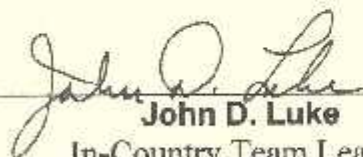
For successfully completing the

Basic Firefighting and Damage Control Course


And has been tested on the contents, as required.

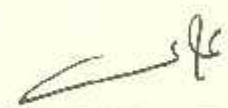
*This training, as well as the associated testing
was completed on*

March 2nd, 2005


John D. Luke
In-Country Team Leader

BAV, Egypt


Rear Admiral Mohamed Zaki
Commander, Naval Schools
Egyptian Navy


Rear Admiral Mamdouh Draz
Chief of Training
Egyptian Navy



This is to Certify that

Lt HANY MOHAMED ELSAYED IBRAHIM

Is Recognized for *His Valuable Contribution* working as a Liaison Officer in the Design Phase of the Egyptian Navy Fast Missile Craft on site from May 16, 2011 to November 30, 2011.

Signature


Date
10/07/11



Vision Technologies
Systems



CERTIFICATE OF APPRECIATION

We hereby express our sincere appreciation to
LT HANY MOHAMED ELSAYED IBRAHIM
ARN 300T

For your outstanding support to the Egyptian Navy Fast Missile Craft project. Your dedication and exceptional commitment to teamwork has greatly contributed to the success of the EN FMC program.

May 2011 through November 2011

A handwritten signature in black ink, appearing to read "Frank McCarthy".

Frank McCarthy
Program Manager, Support Ships, Boats, and Craft