



- **Bio.:**

**Name:** Ahmed Hatem

**Education:** I have acquired my Master of Science in Metallurgical Engineering at Faculty of Engineering – Cairo University in 2014. My research was about the modification of Aluminum-Silicon AC4C alloy and Aluminum-Magnesium AC7A alloy by pouring at different pouring temperatures and by ultrasonic treatment.

- **Personal Information:**

**Full Name:** Ahmed Hatem Omar Abd El-Aziz Al-Khoribi

**Address:** 33 Abo El-Feda Street – El-Zamalek – Cairo – Flat n.o 29

**Current Position:** Teaching Assistant at Faculty of Engineering, Cairo University, Dept. of Metallurgical Engineering

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**Telephone:** 01066549404

- **Education:**

a) Undergraduate:

**Bachelor Degree:** From 2007 to 2012

**Graduation Project:** Welding of Duplex and Super Duplex St.St.

b) Postgraduate:

**Master of Science:** From 2012 to 2014

**Thesis Title:** Effect of Pouring Temperature and Ultrasonic Treatment on The Grain Size and Morphology of Al-4.5% Mg and Al-7% Si Cast Alloys

**Abstract:** Grain refinement has many beneficial effects on Al-cast alloys, such as increasing fluidity, reducing hot cracking, reducing micro porosity, improving yield strength, and improving fracture toughness. This work was carried out to investigate the effect of pouring temperature on the grain size and morphology of Al-4.5% Mg (JIS-AC7A) and Al-7% Si (JIS-AC4C) cast alloys. In addition, the effect of ultrasonic treatment (UST) was also investigated on the same alloys.

**Supervision:** Prof. Dr. Waleed Khalifa (CU)  
Dr. Shimaa El-Hadad (CMRDI)

• **Technical Training:**

1) Central Metallurgical Research and Development Institute (CMRDI): 2 weeks in July 2010

2) Egyptalum: 2 weeks in July 2011

• **Work Experience:**

Teaching Assistant at Faculty of Engineering, Cairo University, Dept. of Metallurgical Engineering: From 2012 till current date

**Job Description:** I have taught: MATLAB – Casting – Material Science – Theory of Elasticity and Plasticity – Engineering Economic Analysis – Metal Forming – Mineral Processing – Non Organic Chemistry

- **Research Interests and Skills:**

- 1) **Manufacturing and casting:** Non ferrous and ferrous alloys, composites, polymers, and ceramics.
- 2) **Results analysis and material characterization.**
- 3) **Grain Refining:** Ultrasonic treatment, quenching, and mechanical stirring.
- 4) **Experimental and mechanical Testing:** Tensile test, hardness test, and impact test.
- 5) **Microstructure Examination:** Optical microscope and scanning electron microscope.

- **Languages:**

Arabic – Excellent in English ( TOEFL test has been acquired and my score has been 613 )– Moderate in French

- **Computer Skills:**

MATLAB – Basic – Pascal

I am very opened to learn any other programs and any other needed skills.

- **List of Publications:**

- 1) Ahmed El-Khoribi, “Effect of Pouring Temperature on The Grain Size and Morphology of Al-4.5% Mg and Al-7% Si Cast Alloys”, prepared to be submitted to journal of Material Science, 2015
- 2) Ahmed El-Khoribi, “Effect of Ultrasonic Treatment on The Grain Size and Morphology of Al-4.5% Mg and Al-7% Si Cast Alloys”, prepared to be submitted to journal of Material Science, 2015

- **Conferences/Workshops and Formal Presentations:**

Ahmed El-Khoribi, “Effect of Pouring Temperature and Ultrasonic Treatment on The Grain Size and Morphology of Al-4.5% Mg and Al-7% Si Cast Alloys”, presentation at Cairo University on 24<sup>th</sup> August, 2014 to Prof. Mohamed Abd El-Rahman, and Prof. Waleed Khalifa

- **References:**

- 1) Dr/ Khaled El-Beheri:  
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- 2) Prof. Abd El-Hamid Hussein:  
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- 3) Prof. Ahmed El-Sheikh:  
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