

Hussein Osama Badr

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Educational Background:

- Graduate, Faculty of Engineering, Metallurgy and Material Science Department, Cairo University, July 2016.
- Major: Metallurgical Engineering, Grade: **Very Good (82.16 %)**
- Rank: **First in the class, 2016**

Graduation Project:

Graduation Project "Manufacturing of Polymer/Carbon nano-tubes thermoelectric Generator"

Grade: **Excellent**

Working Experience

- Working as Teaching Assistant at Department of Metallurgical Engineering and Materials Science, Faculty of Engineering, Cairo University since January 2017.

Conferences posters and presentation

- "Applying CES to Identify the Hosting Material for Thermoelectric Generator", 7th North American Materials Education Symposium, university of California, Berkeley.
- "Case Study on Development of a Prototype Thermoelectric Generator", Product Development and Innovation symposia – PDI , May 2016.
- "Thermoelectricity ", Symposia on sustainable mega projects , May 2016.
- "Manufacturing of Polymer/Carbon nanotubes thermoelectric Generator", European Advance Materials Congress, August, 2016.
- "Thermoelectric behaviour of polyvinyl acetate /CNT composites", Alloys and Compounds for Thermoelectric and Solar Cell Applications V symposium, TMS, 2016

Conferences Paper

- "Thermoelectric behavior of polyvinyl acetate /CNT composites", Alloys and Compounds for Thermoelectric and Solar Cell Applications V symposium, TMS, 2016.
- "Effect of Nano-graphite Dispersion on the Thermal Solar Selective Absorbance of Polymeric-based Coating Material", Advanced Materials for Energy Conversion and Storage, TMS,2017.

Conferences Attended

- Symposia on Product Development and Innovation – PDI , May 2016
- Symposia on Industrial systems and operations management – ISOM , May 2016
- Symposia on sustainable mega projects , May 2016
- Egyptian Engineering Day (EED – 2016).
Holds the second place at the energy competition.
- Innovation and Graduation Projects forum – Egyptian Engineers Syndicate (2016).

Workshops Attended

- Renewable Energy Systems: materials and design, BUE, 2015.
- Solar Energy Materials and Applications, Ain Shams University, May 2016.
- Fatigue Properties of Materials, Ain Shams University, May 2016.

Internship Experience:

- Summer Training in **Al-Ezz Dekheila Steel Company, Alexandria, 2014**
- Summer Training in **Delta Steel Company, 2014**
- Summer Training in **Helwan Company for Castings, 2013**
- Summer Training in **Central Metallurgical Research and Development Institute (CMRDI), 2013**

Extracurricular Activities:

- Participant at the K-vector student activity group, Department of Mechanical Engineering.
- Participant at student activity group of EMG (engineering material science).

Computer Skills:

- Very good user of Windows, Word, PowerPoint, Excel.
- Very good user of MATLAB language.
- Very good user of CES Granta for materials selection.
- Good user of COMSOL Multiphysics software.

Language Skills

- Arabic (native speaker)
- English (very good command of both written and spoken English)
- German : Fair
- French : Fair

Postgraduate studies

It is in progress to complete Msc degree (courses and thesis) in Department of Metallurgical Engineering, Faculty of Engineering, Cairo University.

Thesis topic: A Study of Materials for Thermoelectric Application

Postgraduate courses

<i>Course</i>	<i>State</i>	<i>Lec hrs / week</i>
<i>Advanced Physical Metallurgy</i>	<i>Passed</i>	<i>3</i>
<i>Destructive and Non Destructive Testing</i>	<i>Passed</i>	<i>3</i>
<i>Thermodynamics of Irreversible Process</i>	<i>Passed</i>	<i>3</i>
<i>Elective course (Thermoelectric Materials)</i>	<i>Passed</i>	<i>3</i>
<i>Technical Writing</i>	<i>Passed</i>	<i>3</i>
<i>Advanced materials</i>	<i>Passed</i>	<i>3</i>
<i>High Temperature Oxidation</i>	<i>Passed</i>	<i>3</i>
<i>Industrial Furnaces</i>	<i>Passed</i>	<i>3</i>
<i>Quantum Nanostructures</i>	<i>Attended</i>	<i>3</i>
<i>Mathematical Methods in Physics</i>	<i>Attended</i>	<i>3</i>

Soft Skills:

- Leadership
- Presentation
- Multitasking
- Punctuality
- Creativity
- Team work

Interests:

- Reading
- Playing sports

Professional player at the HAND BALL team of armed forces sporting club 2006–2009.

Professional player at the SWINMMING team of armed forces sporting club 2000–2007.

Personal Information:

Date of Birth: 21th November 1993

Marital Status: Single

Nationality: Egyptian

Military service: Exemption