**Curriculum Vitae**

**Osama Mohamed Abdelwahed Awadallah**

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**Employment**

* Teaching Assistant at the Mechanical and Materials Engineering Dept, College of Engineering

and Computing, Florida International University, USA. *August 2013 – Now*

* Teaching and Research Assistant at the Mechanical Design and Production Dept, Faculty of Engineering, Cairo University, Egypt*. February 2009 – June 2013*

**Research Interests**

Processing, characterization, and applications of Carbon Nanomaterials; developing

novel materials for energy generation and storage; Nanomaterials for electronics;

novel Composites for structural and automotive applications; Novel materials

for biomedical applications.

**Education**

**1- M.Sc**. of Mechanical Design and Production Engineering, *2008 – 2009*

Faculty of Engineering, Cairo University, Egypt.

**Pre – Master grade**: Very good (80%).

**Thesis title:** “Characterization of A356 Metal Matrix Composite Reinforced

by MWCNTs Synthesized by Submerged Arc Discharging with different

Anode/Cathode Configurations”.

**2- B.S.** in Mechanical design and Production Engineering, *2003 – 2008*

Faculty of engineering, Cairo University.

**Grade**: Very Good with the honor degree (overall 81.16%).

**Graduation project**: “Assessment and development of Butterfly valves”.

**Grade**: Distinction.

**3- General Secondary Certificate** *2003*

**Grade**: Excellent (93%)

**Languages**

Arabic: Native speaker

English: IELTS Score: 7.0

**Research Experience**

* Educational and research project funded by TEMPUS project under the title

"Advanced Material & Technology: A New Curriculum; JEP\_33104\_2005" (EU).

**Mission:** Participated in active teaching classes and laboratory training sessions of

advanced material characterization techniques about Atomic Force Microscopy

(AFM-AA5000), Scanning Electron Microscopy (SEM QUANTA-FEG 250),

Particle Size Analysis (BI-90), and Zeta Potential (ESA 9800).

* Fabrication, Purification, and Characterization of Carbon Nanotubes.
* Fabrication and Characterization of carbon nanotubes aluminum alloy based

Nanocomposites using stir-casting technique for automotive applications.

* Advanced characterization of surface modified Stainless Steel 316L implants.

**Teaching Experience**

Fundamentals of Manufacturing Engineering

Metal Forming Technology

Materials Science

Mechanics of Materials

Strength and Testing of Materials

Computer Aided Machining

Computer Aided Metal Forming

Characterization of Bulk Materials (Introduction to Scanning Probe Microscopy)

**Computer Skills**

**Programming:** Matlab

**Solid Modeling and Drafting:** AutoCAD - Solid Works

**Finite Element Modeling:** Cosmos Works - ABAQUS

**Publications**

[1] Awadallah, O.M., Rashad, R.M, and Wifi, A.S., “*Study of the effect of Anode/*

*Cathode geometry on the yield rate and quality of the MWCNTs synthesized by*

*Submerged arc discharging*”, ASME 2013 International Manufacturing

Science and Engineering Conference, Madison, WI, USA.

[2] Rashad, R.M., Awadallah, O.M., and Wifi, A.S., “*Effect of MWCNTs*

*content on the characteristics of A356 Nanocomposite*”, Journal of Achievements in

Materials and Manufacturing Engineering, 2013, 58(2), pp 74-80.

**Scholarships and Awards**

* Mechanical and Materials Engineering Department, College of Engineering

and Computing, FIU, Graduate Assistantship, 2013.

* Dr. Ehab Ismaeil award for Academic Excellence, Faculty of Engineering,

Cairo University, 2010.

* Faculty of Engineering, Cairo University graduate studies scholarship, 2008-2013.

**Conferences**

ASME MSEC 2013 “Manufacturing Science and Engineering Conference”,

June 7 – 14, 2013, Madison, WI, USA.

International Conference on “Nontechnology for Green and Sustainable Constructions”,

March 14 – 18, 2010, Housing and Building National Research Center, Giza, Egypt.

**Personal Information**

Nationality: Egyptian

Marital state: Single

Date of birth: Nov. 30th 1986

Military service: Exempted

**References**

**Abdalla S. Wifi**

Professor of Mechanical Design and Production Engineering

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**Ragaie M. Rashad**

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**Niveen M. Mawsouf**

Professor of Mechanical Design and Production Engineering

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Assistant Professor of Mechanical Design and Production Engineering

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