

AHMED ELRUBY

Address: 62 Halls road, St. John's, NL, A1A 5Y8

Cell Phone: +1 (709) 746 5066

E-mail: aelruby@mun.ca - ruby@aast.edu

URL: http://www.aast.edu/cv.php?disp_unit=353&ser=96325

SUMMARY

Assistant Lecturer, Dept. of Mechanical Engineering, College of Engineering, Arab Academy for Science, Technology and Maritime Transport (Egypt).
Currently on a study leave to earn my PhD from Memorial University of Newfoundland and Labrador (Canada).

EXPERIENCE

2012-2015

Assistant Lecturer, Dept. of Mechanical Engineering, College of Engineering, Arab Academy for Science, Technology and Maritime Transport.(Cairo Campus & Smart Village Campus)

- Lecturing for Engineering Drawings, Mechanical Engineering Drawing, Stress Analysis, Machine Design, Maintenance Planning, Electromechanical Systems
- Academic Advising committee head
- Exams committee head
- Was on the team who prepared for American Board for Engineering and Technology (ABET) Accreditation (Department has been ABET accredited for 5 years)

2009-2012

Graduate Teaching Assistant, Dept. of Mechanical Engineering, College of Engineering, Arab Academy for Science, Technology and Maritime Transport.(Cairo Campus)

- Helped in teaching Mechanical Engineering Drawing, Machine Design, Computer Aided Design, Electromechanical Systems, Mechatronics Engineering and Maintenance Planning for six semesters.
- Academic Advising committee member (50 students)
- Exams committee member
- Scheduling committee member

Jul 08 - Aug 08

Trainee Engineer, Remote Operated Vehicle (ROV) Dept. at Fugro-Egypt (Petroleum Services)

Jun 08 - Jul 08

Trainee Engineer, PETROBEL, Abu Redies, Egypt. (Safety for Oil & Gas)

Aug 07 - Aug 07

Trainee Engineer, Khalada Petroleum Company western desert, Egypt. (Safety for Oil & Gas)

Jan 07 - Feb 07

Trainee Engineer, Engineering Department at EGA Mercedes Benz Auto manufacturing company, Egypt.(Automotive industry)

Jun 06 - Jul 06

Trainee Engineer, Bavarian Auto Group BMW, Egypt. (Automotive industry)

EDUCATION

- 2015-Current** **PhD. Candidate In Mechanical Engineering**, *Memorial University of Newfoundland, Canada*
- 2013-Postponed** **PhD. Aerospace Engineering**, *Cairo University, Egypt*
- 2009-2012** **MSc. In Mechanical Engineering**, *Arab Academy for Science, Technology and Maritime Transport (Alexandria, Egypt)*
Thesis Title:
Design, Modeling and Intelligent Control of Unmanned Aerial Vehicles (UAVs)
- 2004-2009** **BSc. In Mechanical Engineering**, *Arab Academy for Science, Technology and Maritime Transport (Cairo, Egypt)*
General Mentions:
Distinction with honors, Order of Merit: 3rd on class with a GPA of 3.69 out of 4.0.
Orascom Telecom Chairman Fund for undergraduate projects (~ 10,000 USD grant).

COMPUTER SKILLS

Languages: Python, C, C++, FORTRAN, MATLAB

Microcontroller Programming Tools: Proteus, Keil uVision, MikroC, CCS

Packages: ABAQUS, AUTOCAD, SOLIDEDGE, Autodesk Inventor, Gambit, ANSYS FLUENT, POINTWISE, MATLAB/SIMULINK,(Microsoft Windows, Word, Excel)

OTHER SKILLS

- Familiarity with laboratory data acquisition, I/O cards, Programmable Logic Controllers (PLCs), Microcontrollers, hydraulic equipment, pneumatic equipment and test devices.
- Preparing lab manuals for students [Experiments for Programmable Logic Controllers (PLCs)].
- Preparing presentations, handouts and exams.
- Academic advising for students and guiding them through their years of university education.

PUBLICATIONS

- Mohamed Elkhateeb and Ahmed Elruby, “Dynamic Modeling, Fuzzy Control and Stabilization of Quadrotor Vehicle (Book).” Cairo, Noor Publishing (2017).
- Elruby, A. Y. and Nakhla, S, “Automating XFEM Technique for Crack Onset of Composites.” International Conference on Composites, Ottawa, Canada, July 2017 (Submitted)
- A. Y. Elruby, A. M. Elmoghazy, M. M. Elkhateeb, “Quad rotor design, simulation and implementation.” 1st International Conference on Computer Science from Algorithms to Applications, Cairo, Egypt, December 2009.
- A. Y. Elruby, M. M. El-khatib, N. H. El-Amary, A. I. Hashad, “Dynamic Modeling and Control of Quadrotor Vehicle.”, 15th International Conference on Applied Mechanics and Mechanical Engineering AMME-15, Cairo, Egypt, May 2012.

JOURNAL ACTIVITY

REVIEWER IN "JOURNAL OF CONTROL SCIENCE AND ENGINEERING"

URL: <http://www.hindawi.com/journals/jcse/>

REFERENCES

Sam Nakhla, Ph.D.

Assistant Professor, Department of Mechanical Engineering, Faculty of Engineering, Memorial University of Newfoundland. Office: EN3043, Canada.

Tel: +1709-864-3814

E-mail: s.nakhla@mun.ca

Salem Haggag, Ph.D.

Assistant Professor, Department of Mechanical Engineering, Faculty of Engineering, American University in Dubai. Office: E308C, Dubai, United Arab Emirates.

P. O. Box 28282

Tel: +971 4318 3438

E-mail: shaggag@aud.edu

Mohamed Elkhateeb, Ph.D

Assistant Professor, Department of Electronics and Communications, Faculty of Engineering, Military Technical College, Cairo, Egypt.

The Commandant of the Military Technical College Kobry Elkobbah, Cairo, Egypt.

Tel: +201 2 8787 8765

E-mail: elkhatib.m@gmail.com

Moustafa Rostom, Ph.D.

Assistant Professor & Department Head, Department of Mechanical Engineering, Faculty of Engineering, Arab Academy for Science, Technology and Maritime Transport, Office: B212, Cairo, Egypt.

El Moshir Ahmed Ismail Street - Behind Sheraton Heliopolis - Elhorria - Cairo - Egypt.

P.O. Box 2033

Tel: +2012 2100 8346

E-mail: mrostom1@aast.edu, mrostom1@yahoo.com