



Recommendation Letter

I am writing this letter to recommend Dr. **Mahmoud Abdelaal Hassanin** who is currently seeking an academic post in your esteemed Institution.

I have known Dr. Mahmoud for more than 10 years. He was one of the graduate students in the Electrical Power Engineering Department at Cairo University - Faculty of Engineering. Dr. Mahmoud attended the graduate course which I have taught. His performance in this course was excellent and he was among the top 1%.

Starting 2012, Dr. Mahmoud joined my group that is doing research and consultation in the areas of Automatic Control Applications in Industry and Power System.

I supervised his MSC in the area of " **Operation and Control of a 6 Axes (DOF) Robot in Assembly Line** ". He defended his MSC Thesis in June 2014. I could clearly say that he was very committed to pursuing his graduate education.

Dr. Mahmoud started his PhD work in 2015 under my supervision. He defended his PhD thesis in June 2019 in the area of " **Deep Learning and Optimization Techniques applied to Robot Vision System for Detecting and Grasping Known Objects** ". He has prepared and submitted 3 Journal Papers based on the research work of his PhD work.

Dr. Mahmoud has been engaged in the following academic and teaching activities during the period 2012 to 2020:

- Supervising the activities of the Graduation Project Robotics Group
- Teaching the operation and programming of Industrial Robot units: Mitsubishi - RINO and the Schneider 3-Axial Motion Control System for the Graduation Project students
- Lecturing the Electrical Energy Program Students during the Summer Training program

Moreover, I had the chance to recognize many of his personal traits through my observations over a span of 10 years, Dr. Mahmoud is ambitious, hardworking, and has a respectful and disciplined personality. He is dedicated and well-motivated in his research and teaching works, and can perform excellent as an individual, as a team member or as a leader as well.

Therefore, I do strongly recommend him for obtaining an academic Post in your esteemed University.

Sincerely,

Prof. Dr. Ahmed Bahgat

Faculty of Engineering / Cairo University / Giza-Egypt

Professor of Automatic Control

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Date: 22 July 2020



Recommendation Letter

July, 27th, 2020

Dir Sir/Mam,

This is Dr. Mohamed Shawky Saad, an associate professor with the faculty of Engineering, Cairo University. I am writing this letter as a recommendation to support Dr. Mahmoud Abdelaal Hassanin's application for the academic position at your esteemed institution.

I know Mahmoud for almost eight years now. We have been collaborating in various research activities since his masters and through his PhD and after. We engaged in publishing some mutual work (a paper is currently under review) and in assisting masters students working in the automatic control lab., Electrical power Eng. Dept, Cairo University. As a researcher, I can say that Mahmoud is one of best researchers I have encountered. He is well organized, critical thinker and a hard worker. His PhD work reflects his technical capabilities and excellent knowledge of the topic. Mahmoud's fluency in English, both written and oral, is very good.

Being the coordinator of the Electrical Energy Engineering program, I have also cooperated with Mahmoud in some teaching activities. Mahmoud was a frequent teaching assistant in various courses of the program. He assisted as a teaching assistant in EPMN201 (Microprocessors Electric Energy Applications), EPMN313 (Control Systems), in addition to EEEN281 and EEEN381 (Industrial training I and II courses, respectively). As a teaching assistant, he showed a great sense of responsibility in carrying out his duties, being on time for his tutorials and office hours and in returning assignments he grades on time. Mahmoud is a personality to rely on in fulfilling assigned tasks

effectively in minimum time. He showed excellent command of setting-up/operating various lab equipment in the courses he assisted in.

Thus, I definitely recommend Mahmoud's proposal to be part of your prestigious organization. I am sure that benefit will be gained by both sides.

Should further information be necessary, please do not hesitate to contact me.

Dr. Mohamed Shawky Saad



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