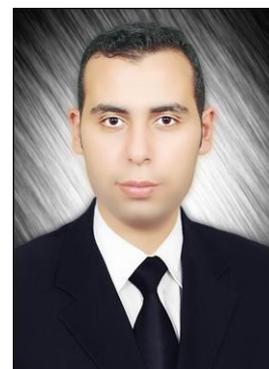


## **Alaa Awny Ahmed Abdel-Aaty**

Lecturer at Agricultural Engineering Department  
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**Date of birth:** 4/3/1987  
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### **Employment:**

**(11/2016 to present):** Agricultural Engineering Lecturer at Faculty of Agriculture, Zagazig University, Egypt.

**(7/2012 to 11/2006):** Agricultural Engineering Assistant Lecturer at Faculty of Agriculture, Zagazig University, Egypt.

**(11/2008 to 7/2012):** Agricultural Engineering Demonstrator (Instructor) at Faculty of Agriculture, Zagazig University, Egypt.

### **Education:**

- **B.Sc.** Agricultural sciences (Agricultural engineering), Faculty of Agriculture, Zagazig University, 2008 with Excellent with the honor degree (92.55%).
- **M.Sc.** Agricultural sciences (Agricultural Engineering), Faculty of Agriculture, Zagazig University, 2012.

**Thesis title:** Study on the mechanization of bean (*phaseolus vulgaris*) crop production under egyptian condition.

- **Ph.D.** Agricultural sciences (Agricultural Engineering), Faculty of Agriculture, Zagazig University, 2016.

**Thesis title:** Cotton stalks shaving machine design.

## **Experiences and general skills:**

- **Computing skills** in Windows, Microsoft Office, Internet, Endnote, latex, SPSS, Auto cad and solid works.
- **Good** spoken and written English
- **Training courses** in “Education Programs and Courses Specifications and Evaluation of Learning Outcomes for H.E. Institutes”- National Authority for Quality Assurance and Accreditation of Education. (3 days).
- **Training courses** in “Self Evaluation for Higher Educational Institutes”- National Authority for Quality Assurance and Accreditation of Education. (3 days).
- **University Lecturer preparing course** from “faculty and leadership development center”- Zagazig University (18 days).
- **Training workshop** in “Improving Water Productivity In Irrigated Agriculture With Focus On Mechanized Raised-Bed Wheat Planting”- International Center For Agricultural Researches In The Dry Areas (ICARDA).(7 days)
- **Training workshop** in “International scientific publications”- Zagazig University by German Academic Exchange Service (DAAD).(3 days)

## **Teaching skills:**

Teaching many courses in agricultural engineering to under graduated students like:

- Engineering Drawing
- Agricultural Engineering introduction
- Plane surveying and applications
- Machine drawing
- Construction theory and stress analysis
- Heat transfer
- Materials properties and testing
- Theory of machines

- Internal combustion engines
- Hydraulics and fluid mechanics
- Hydraulic Machines
- Machine design
- Agricultural machines
- Farm tractors
- Food processing engineering
- Post harvesting engineering
- Maintenance and repair of farm machinery
- Pest control machines

### **Research area:**

- ❖ Agricultural machinery design, operating and modification.
- ❖ Agricultural products processing (post-harvest treatments).
- ❖ Renewable energy.

### **Publications:**

- **Abd El-Atty, et al.,(2012).** Study On The Mechanization Of Bean (*Phaseolus Vulgaris*) Crop Under Egyptian Conditions. Zagazig J. Agric. Res., Vol. 39 No. (3) 2012.

### **Brief summary of research:**

This study aimed to select the proper system of bean crop mechanization to achieve high yield, low grain losses with high field efficiency. The experiments were carried out using pneumatic planter and seed drill in planting operations in addition to the manual method, and tractor mounted mower was used in harvesting operation under different forward speeds and moisture contents compared to the manual method. Also, a Turkish threshing machine was used for threshing the crop at different drum speeds and seed moisture contents.

- **Abd El-Atty, et al.,(2016).** Performance Evaluation Of A Local Machine For Cutting And Chopping Cotton Stalks. Zagazig J. Agric. Res., Vol. 43 No. (5) 2016.

### **Brief summary of research:**

A cotton stalks shaving machine was designed and evaluated for performance at Faculty of Agriculture, Zagazig University, Egypt, to

choose the proper operating conditions with lowest losses and costs. The machine performance was evaluated taking into consideration: machine field capacity and efficiency, cutting efficiency, shredding efficiency, energy requirements and cost under different kinematic parameters, different cutting unit speeds, different numbers of shredding knives and different rotating speeds of shredding units.

### References:

- **Prof. Dr. Mahmoud Abdel-Rahman El-Shazly**, professor Emeritus of Agricultural Engineering, Faculty of Agriculture, Zagazig University, Egypt.  
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