

# ABDELRHMAN BAKR

M E C H A T R O N I C S   E N G I N E E R



## PERSONAL PROFILE

**Name :** AbdElrhman AbuBakr Ibrahim

**DATE OF BIRTH :** 20 / 2 / 1997

**NATIONALITY :** Egyptian

**MARITAL STATUS :** Single

**MILITARY SERVICE :** Exemption

## OBJECTIVE

Seeking an opportunity to help improve the development of a company by filling a Mechatronics Engineer position that will utilize my skills and experience in Robotics, Microcontrollers, Embedded Systems, Control Systems, Automation Processes, and Mechanical Design.

## CONTACT

 01002629539 (WhatsApp Only)

 01092655076 (Phone Only)

 abdelrhmanbakr97@gmail.com

 NasrCity - Cairo - Egypt

 [www.linkedin.com/in/abdelrhmanbakr](https://www.linkedin.com/in/abdelrhmanbakr)

## EDUCATION

### BACHELOR OF MECHATRONICS ENGINEERING

FACULTY OF ENGINEERING - MANSOURA UNIVERSITY

2016 - 2021

- Grade : Very Good (B+)
- Percentile Grade : **91.3%**
- GPA : **3.61** out of 4

### EMBEDDED SYSTEMS DIPLOMA

Technical and Laboratory Service Center - Mansoura University

Duration : 8 Months

- C Language Building Logic and Problem Solving.
- C Language Coding.
- Atmega32 chip Coding and Controlling Different Peripherals.
- Controlling Sensors and Actuators.
- Building Automated Systems.

### SOLIDWORKS COURSE

ITC Academy - Mansoura University

Duration : 4 Months

- Sketching, Designing 3D Parts, Assemblies and Mechanisms.

## VOLUN EXPERIENCE

- Former Reverse Engineering Team Leader
- Former Owner of Software Website
- Former Forums and Website Moderator
- Former Graphic Designer
- Former Video Editor
- Former Member of College Technical Teams Committee including Software, Mechanical Design, Human Resources, Graphic Design, Training, and Logistics.

# ABDELRHMAN BAKR

M E C H A T R O N I C S   E N G I N E E R



## ABILITIES

- Enhance existing processes of a company using automation.
- Develop alternative manufacturing systems for solving business problems.
- Determine materials for building product prototypes and deciding material for a mechatronics design.
- Using mechanical, electrical and electronics technology to create a manufacturing system.
- Conduct simulation and modelling.
- Creating engineering reports that document the design and details of a machine.



## SOFT SKILLS

- Adept at innovatively solving problems.
- Thrive in high pressure situations.
- Excellent critical thinking skills.
- Superior written and spoken communications skills.
- Ability to work individually or in a group.
- Responsible and Organized



## LANGUAGES

ARABIC  100%

ENGLISH  90%



## EXPERIENCE

### VOXEL COMPANY

**For 3D PRINTING, RABID PROTOTYPING and PROJECTS EXECUTION**  
NOV 2021 – FEB 2022

- Dealing with different types of electronics needed for projects.
- Designing full projects and assembling it and designing different parts for 3D Printers.
- Dealing With different types of 3D Printers.
- Preparing reports and plans for projects required for customers.

### SOLIDWORKS MECHANICAL DESIGN

**FREELANCER in (LINKED IN, UPWORK, and FREELANCER) WEBSITES**  
JAN 2018 – MAY 2021

- Prepared 3D SolidWorks parts and drawings for project execution.
- Designed and developed engineering parts with best materials.
- Created prototypes and all engineering presentations.
- Solving problems with the new designs.

### WORDPRESS DEVELOPER

**FREELANCER in (LINKED IN, UPWORK, and FREELANCER) WEBSITES**  
FEB 2020 – MAR 2022

- Build websites using WordPress.
- Prepare website proposals to present to clients.
- Provide technical support to clients.
- Design new features for existing websites.
- Write coding using HTML and CSS.

### WEBSITE MANAGER

**MANAGING A TECH WEBSITE WITH THE HELP OF MANY SUBTEAMS**  
MAR 2015 – JAN 2018

# ABDELRHMAN BAKR

M E C H A T R O N I C S   E N G I N E E R



## PROJECTS

### GRADUATION PROJECT

**Project Grade : Excellent ( A+ )**

Rule : Project Vice Leader and Embedded System Committee Head

- A smart trash bin that stores and sorts rubbish automatically according to their type (Metal, Paper, etc) using Computer Vision.
- Writing Code, Testing Code, Determining the Process Logic, Sketching the Design, Designing the Body Parts, Installing and Testing



#### SELF-PARKING CAR PROJECT

Rule : Coding the Software with C LANG



#### SELF BALANCE ROBOT WITH RC

Rule : Head of Designing Team



#### 3D PRINTER PROJECT

Rule : Designing Parts with SolidWorks



#### SMART CHESS PROJECT

Rule : Head of Designing and Hardware



## COMPUTER SKILLS

|                                |                        |     |
|--------------------------------|------------------------|-----|
| SolidWorks (MD,Assembly)       | <div><div></div></div> | 90% |
| Atmel Studio                   | <div><div></div></div> | 75% |
| Proteus                        | <div><div></div></div> | 70% |
| Arduino                        | <div><div></div></div> | 95% |
| Ultimaker Cura                 | <div><div></div></div> | 80% |
| Simplify 3D                    | <div><div></div></div> | 80% |
| AutoDesk NetFabb               | <div><div></div></div> | 70% |
| Adobe Illustrator              | <div><div></div></div> | 60% |
| Adobe Photoshop                | <div><div></div></div> | 80% |
| Adobe Premiere                 | <div><div></div></div> | 70% |
| Microsoft Office : Word        | <div><div></div></div> | 85% |
| Microsoft Office : Power Point | <div><div></div></div> | 85% |
| Microsoft Office : Excel       | <div><div></div></div> | 60% |