

# AbdulRahman Abughazala

Intuitive & driven professional in Mechatronics/Robotics

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## WORK EXPERIENCE

### Engineering Intern

Omron Automation

06/2018-08/2018

Hoffman Estates, IL

- 10 week internship focused on Application Engineering, Project Management, Marketing & Sales.
- Completed training classes in Ladder Programming, Industrial Networks, & Safety Assessment.
- Real Plant exposure through traveling to 9 States and 20+ cities exploring semiconductor, manufacturing, packaging and automotive industries.
- Completed and presented project to executive team detailing doubling 2017 revenue of \$8 Billion, attaining higher market share within different automation industries and exploring new technologies.

### Engineering Intern

PepsiCo – Saudi Snack Foods

07/2017-09/2017

Riyadh, Saudi Arabia

- Worked under supervision of Mechanical, Electrical and Mechatronic Engineers to maintain working conditions of automated packing machines and robots.
- Completed training in Industrial & Machine Safety, Machine & Factory Operations.
- Initiated a project that could lead to the improvement of machine and factory efficiency.

## EDUCATION

### Mechatronic Engineering

California State University, Chico

08/2015-05/2019

Courses:

- Motion/Machine Automation • Control System Design
- Electronics • Digital System Design • Embedded Systems
- Logic Design • Mechanical Design • Instrumentation
- Circuits • Thermodynamics • Manufacturing

## Skills

- Ladder • C/C++ • Python • HTML • LabVIEW
- Industrial Networks • Computer Systems • Inventor
- SolidWorks • Microsoft Office Suite • 3D Printing & Design

## LANGUAGES

English

Bilingual proficiency

Arabic

Native proficiency

## PROJECTS

### Automated Flow Test Station – Benchmark Electronics

2018-2019 – Senior Capstone Team Design Project. Creative, Electrical and Programming lead. Winner of outstanding capstone project award.

- Designed, Programmed, and Manufactured a 5-micron repeatability 3 axis Cartesian Robot for leading manufacturer of semiconductor parts.
- Designed Schematics for complete integration between electrical and mechanical systems.
- Successfully integrated Galil motion control and LabVIEW programming for operator access and data acquisition.
- Successfully completed motorizing and electronic parts selection based on customer specification
- Improved testing efficiency and accuracy of semiconductor parts by 40%.

### SAE Formula Electric Competition Team

2016-2018 – Team Competition

- Vice President & Power Train Systems Leader
- Coordinated meeting where I led a discussion & assigned weekly tasks for 6 team members' personal & team development
- Researched possible implementation of PLA plastic for Aerodynamics & bodywork sub-team

### Autonomous/Self Driving Arduino Vehicle

2018 – Team Project

- Successfully utilized a PID loop & Vision system to create a self-driving & steering vehicle that can drive around any given circuit while staying in between the lanes.

### Automation Project – Peanut Butter Jar Sorter

2016 – Team Project

- Designed, Programmed, and Built a machine that can identify and sort jars within the packaging process with 98% accuracy.

### ASCE Mid Pacific Conference – Concrete Canoe

2014-2016 – Team Competition

- Mix Design R&D Leader
- Designed a concrete mix that successfully achieved buoyancy & operation of canoe during competition
- Coordinated meetings, assigned task to 8 team members, managed project progression leading up to competition

## VOLUNTEER EXPERIENCE

### Volunteer

Golden Gate National Parks Conservancy-2015

- Removed Localized infestations of invasive plant species.

### Lecturer

Society of Manufacturing Engineers (SME)-2017

- Lectured 4 classes of 175 Elementary, Middle and High School students about robotics and automation

### Volunteer

Feed My Starving Children-2018

- Participated in a half day packaging of food to be distributed to children in 70 different countries.