

**AHMED ALSEHALI**  
101 University Loop W #2  
Jonesboro, AR 72401  
[Ahmedalsahli10@gmail.com](mailto:Ahmedalsahli10@gmail.com)  
323-574-1284

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## **OBJECTIVE**

Secure a responsible career opportunity to fully utilize my training and skills, while making a significant contribution to the success of the company.

## **EDUCATION**

Arkansas State University, Jonesboro, AR  
Bachelor of Science in Electrical Engineering  
Minor in Mathematics  
Graduated in December 2020

## **SKILLS**

- Attention to detail, problem-solving, deductive and inductive reasoning, Strong interpersonal verbal and written, Ability to work both individually and with teams, NX, Ideas, Catia, Matlab, Ansys, and C-Programming, Embedded system, Microcontroller, Verilog, Microsoft Office, IbaAnalyzer, Simatic, NI Multisim, NI LabVIEW, MATLAB, C++, sign language, Visual Basic 6.0, Planning / Event Planning, Ability to Work Under Pressure, Time Management, Creativity, QR Codes, Multisim, Matlab, Arduino, inspectAR, PowerAutomationm, AutoCAD, EagleCAD.

## **WORK EXPERIENCE**

Engineering Department, Arkansas State University, Jonesboro, AR August 2020 – Dec 2020

### **Undergraduate Research Assistantship**

- Artificial intelligence simulates a person's taste in music
- Signal processing techniques to extract attributes of music samples into values that a neural network is able to use as input.
- Machine Learning Toolbox in Matlab was used to provide functions, analyze, and model the data.
- Data was generated a random number for Monte Carlo simulations, and performed hypothesis tests.
- Collection of the data from human subjects using random music clips selected from a database. A survey was carried out to get feedback from the subjects for rating the music using the same data definition. Implementation of the supporting software modules like secure file access, randomization of input files for training purpose etc.
- Machine learning was built by drawing blocks in the Machine Learning Toolbox in Matlab.

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Big River Steel, Osceola, United States

May 2020 – July 2020

**Electrical engineer Intern**

- I used ibaAnalyzer and PLC to identify and confirm the delay time. This project mainly aimed at reducing and optimizing the cycle time of welding.
- I developed an ingenious approach for analyzing the entire data at once through the creation of a mind mapping diagram. To create the mind mapping diagram revealed in the Figure 1, signals and logic blocks were extracted from the ibaAnalyzer software and PLC, respectively. All information is arranged in one place by the diagram for easy visualization and identification of the delay time.

Engineering Department, Arkansas State University, Jonesboro, AR Jan 2020 – May 2020

**Undergraduate Research Assistantship**

- Smart blinds with built in solar panels and capable of tracking the sun.
- I developed sun tracking solar panel system using single axis blinds. Microcontroller is used to configure the steps of rotation of the tracker in order to ensure the alignment of the blinds with the direction of the Sun.
- 24 solar panel were chosen and are mounted on the blinds. Each panel in the blind is capable of generating 5V and 250mA. The total voltage output during the day is approximately 120V. For a single solar power, the total current output is 250mA. For 24 solar panels, total current during the day is 6000 mA.

Center for Sustainable Development Studies, Hanoi, Vietnam

July 2019

**Researcher**

- Building sustainable houses, and friendly environment.
- Educate and train architects in sustainable development

Unilever, Jonesboro, United States

May 2019 – July 2019

**IT**

- QR Codes- Providing access to documentation for employees.
- Digital Platform - Analyzing and executing data transfer to a cloud based platform. Ensuring accessibility and ease of use.
- IT MISC- Finance and other Unilever Finance business partners to revisit Jonesboro labor reporting process and implement key learnings.

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International Student Services, Arkansas state university April 2018 – May 2019

**Student Worker**

- Greet guests with professional customer service
- Create promotional items for upcoming events
- Schedule appointment for students

PMGY Bali Wildlife Rescue Volunteer, Bali, Indonesia August 2018

**Volunteer**

- Giving endangered animals daily support that involves feeding, enrichment and enclosure cleaning.
- Wildlife and conservation projects that include turtle conservation project, beach cleans and mangrove conservation.

“We are with you” (nonprofit organizations), Riyadh, SA July 2015 – July 2016

**Volunteer**

- Support and translate for the deaf people
- Educate and train the members with sign language

**LEADERSHIP AND INVOLVEMENT**

International Student Association Spring 2019 – Spring 2020

**Public relation**

- Handling all aspects of planned publicity campaigns and PR activities.

Global Pack Tracks Spring 2017 – Spring 2019

**Vice President of Cultural Engagement**

- Responsible for helping the International Student Services Office match the two students together

**HONORS AND AWARDS**

Undergraduate Research Assistantship Award	Spring 2020 – Summer 2020
Saudi Arabian Cultural Mission to the US Scholarship	Summer 2016 – Fall 2020
Chancellor’s or Dean’s List	Spring 2017-Spring 2019
The National Society of Leadership and Success	Fall 2017
The National Society of Collegiate Scholars	Fall 2017