

# HASSAN ALI

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## EDUCATION

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**University of Minnesota- Twin Cities**  
BS Computer Engineering *GPA: 3.18*

Minneapolis, Minnesota  
Sep 2017 | May 2020

**Normandale Community College**  
AS Engineering Broadfield *High Honors*

Bloomington, Minnesota  
Aug 2014 | May 2017

## PROFESSIONAL EXPERIENCE

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**IPG Photonics**  
*Applications Engineer- Intern*

Minneapolis, Minnesota  
May 2018 | Aug 2018

- Expedited the planning, design, and installation of laser machinery and equipment in an industrial environment, using knowledge of engineering and programming as well as specialized instruments and computers
- Designed and integrated a wet cut pump used on Versa stent cutting system. Increased total system efficiency by 35%

## PROJECTS

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**Bluetooth Controlled Alarm Clock C, PIC24, Bluetooth UART Controller**

- Implemented and designed a wireless accessible alarm clock displayed on an LCD which the settings can be changed through UART module on any mobile device.

**Cloud Office Hours HTML, IOT, Particle**

- Designed system to send alerts to students in database of professors office availability in real time

**Multi-Process Chat Application C, LINUX**

- Created and designed a central chat server, supporting both private peer-to-peer and group chat features.

**Analog to Digital Strain Gauge C, MATLAB, PIC24**

- Led a team of three in the construction of an instrumentation amplifier analog to digital convertor system to read the output of a strain gauge type measurement system and display via MATLAB and on LCD.

## LEADERSHIP AND ACHIEVEMENTS

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**National Society of Black Engineers**  
*Executive Board Member- Publicity Chair*

Minneapolis, MN  
May 2018 | Present

- Promote public awareness of engineering and the opportunities for Blacks and other minorities in that profession
- Organized a group chat via GroupMe which has increased overall event attendance rate by 35%

**Jumpstart**  
*Student Ambassador*

Minneapolis, MN  
August 2018 | Present

- Familiarize Jumpstart's platform and recruit students from University of Minnesota to use the app for a convenient way to get connected with companies & startups
- Market the Jumpstart app to interested students through information sessions, social media, and digital marketing

**National Science Foundation**  
*Award Recipient*

Bloomington, Minnesota  
Aug 2014 | May 2016

- Two year scholarship received on outstanding academic excellence

## SKILLS

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Python, C, C++, Java, JavaScript, HTML, CSS, SQL, LaTeX