# Hassan Ali

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## Education

**University of Minnesota- Twin Cities** — Minneapolis, Minnesota
BS Computer Engineering *GPA: 3.18* — Sep 2017 | May 2020

**Normandale Community College** — Bloomington, Minnesota
AS Engineering Broadfield *High Honors* — Aug 2014 | May 2017

## Professional Experience

**Snap Inc.** — Santa Monica, California
*Software Engineer Intern* — May 2019 | Aug 2019

- Worked with Creative Tools team on Android
- Developed time-based logic to display Snapsterpiece Discard Dialog to users to prevent the user from discarding a Snap they have been editing by mistake
- Integrated Snapcode Sticker feature giving users an easy way to add their Snapcodes to Snaps, and for viewers to add the relevant person with a single tap

**IPG Photonics** — Minneapolis, Minnesota
*Applications Engineer Intern* — 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

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

- Implemented and designed a wireless accessible alarm clock displayed on an LCD
- Displays a real time clock with two alarms and accurate live temperature readings
- 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 application that consists of one main parent process and several child processes that each communicate with their associated user process
- The central chat application supports 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 converter to read the output of a strain gauge type measurement and display via MATLAB and on LCD
- The input differential signal is boosted and then converted to digital via a 16 bit A/D and the output is then displayed with a decimal display to 50 $\mu V$ accuracy, on an LCD and also displayed on a Histogram via MATLAB

## Leadership and Achievements

**National Society of Black Engineers** — Minneapolis, MN
*Executive Board Member- Vice President* — Aug 2019 | Present

- Promote public awareness of engineering and the opportunities for Blacks and other minorities in that profession

**Jumpstart** — Minneapolis, MN
*Student Ambassador* — Aug 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

## Skills

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