

# SAHIL MODI

URH 291 Snyder | 206 E Peabody Drive | Champaign, IL 61820  
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## EDUCATION

**University of Illinois at Urbana-Champaign**  
Undeclared: Pre-Engineering (**Computer Science**)  
GPA | 4.00/4.00  
May 2021 | **Sophomore** Standing

- Taking CS 225: Data Structures
- James Scholar Honors

**Proficient** | Android Development + Java  
**Proficient** | Computer-Aided Design (Autodesk Inventor)  
**Proficient** | C++  
**Intermediate** | Python, HTML  
**Intermediate** | Autonomous Control Systems

## SKILLS

## PROFESSIONAL EXPERIENCE

**Distributed Autonomous Systems Laboratory** (Urbana, IL)  
**Undergraduate Researcher**, Jan 2018 – Present

- Developed scripts for autonomous software
- Aided in developing tests for the software

**Knowles Electronics** (Itasca, IL)  
**Intern**, June 2016

- Built and configured a Linux cluster
- Tested microcontrollers with an oscilloscope
- Found IC chips to test microphones

## PROJECT HIGHLIGHTS

**Capstone CS Project: FaceTunes | Lead Developer**  
An app that plays a song based on current mood

- Machine learning detects emotions in an image
- Strongest emotion picked to play a song
- Spotify integration with specific mood playlists

**Capstone Project: Bluetooth Light Switch | Team Lead**  
An Internet of Things solution to wireless lighting

- Facilitated communication and delegated tasks
- Installable without removal of the current fixture
- Arduino, Bluetooth 2.0, and 9g servo motor

## LEADERSHIP AND ACTIVITIES

**Engineering Freshmen Council** (2017 – Present)  
**IT Chair**, 2017 – Present

- Designed and maintained the RSO website

**iRobotics Midwestern Robotics Design Competition** (2017 – Present)  
**Subsystem Lead, Software Team**, 2017 – Present

- Designed and built the robot's intake system
- Developed code to control various subsystems of the robot

**ACM SIGBot** (2017 – Present)  
**Software Team**, 2017 – Present

- Develop a fully autonomous underwater vehicle

**Vex Robotics** (2014 – 2017)  
**Lead Programmer**, 2015 – 2017 | **State Finalist** 2015, 2016 | 3<sup>rd</sup> at Regionals 2017

- Programmed best-in-state autonomous mode that scored 35% of the team's total score in 15 seconds
- Conducted research on Proportional Integral Derivative (PID) and PTC speed control systems

**St. Alexius Medical Center** (Hoffman Estates, IL) | **Volunteer**, March – August 2017 (60+ hours)

- Delivered medication from the pharmacy



Play Store: smApps



github.com/sahilmodi



linkedin.com/in/sahil-modi



sahilmodi.me