SAHIL MODI

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EDUCATION

University of Illinois at Urbana-Champaign
Undeclared: Pre-Engineering (**Computer Science**)
GPA: 3.91/4.00
May 2021 | **Sophomore** Standing
- Taking CS: Data Structures

Bartlett High School
Magnet STEM Academy
GPA | 4.57/4.00, 3.71/4.00
Top 5% in class

PROFESSIONAL EXPERIENCE

Knowles Electronics (Itasca, IL)
Intern, June 2016
- Built and configured a Linux cluster
- Tested microcontrollers with an oscilloscope
- Found IC chips to test microphones

SKILLS

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

PROJECT HIGHLIGHTS

Google Play Store Applications
Developer Name: **smApps**
- Wireless Light Switch Control
- Finals Grade Calculator
- Ball Bounce

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
- Creating an EFC Website

iRobotics Midwestern Robotics Design Competition (2017 – Present)
Software Team, 2017 – Present
- Designing a robot from scratch to compete against regional universities

ACM Illinois Programming League (2017 – Present)
Freshman Division, 2017 – Present

Vex Robotics (2014 – 2017)
Lead Programmer, 2015 – 2017 | **State Finalist** 2015, 2016 | 3rd at Regionals 2017
- Programmed best-in-state autonomous mode that scored 35% of the team's total score in 15 seconds
- Wrote gyro and motor encoder libraries for future members of the club
- Successfully taught Robot-C programming to 30+ new members
- 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