ANIKA SINGH

Email: anikasingh2001@gmail.com **Github:** https://github.com/Anika-Singh **Personal Website:** anika-singh.github.io/

Education

University of Texas at Austin Electrical and Computer Engineering and Math (Dean's Scholars Honors Program) GPA: 3.8/4 **2023**

Coursework: Software Implementation & Design, Embedded Systems, First Year Design, Robot Learning (Machine Learning), Intro to Computer Architecture, Intro to Electrical Engineering

Work Experience

Researcher, Autonomous Systems, The University of Texas at Austin **Current**

- Designed high-level autonomous capability drones for navigation and perception in simulated environments using ROS and Gazebo
- Implemented libraries for reinforcement learning and computer vision in Python and C++

Researcher, Bio-integrated Electronics, The University of Texas at Austin **Spring 2020**

- Implemented embedded circuit designs to create wireless charging, Bluetooth connection, and electrocardiogram for flexible wearable electronics
- Soldered and designed printed circuit boards for wireless communications

Givology Non-Profit Development Intern **Summer 2019**

- Worked in Product Management to define framework and website functionalities for deployment, communicating between customer and tech team
- Performed role of chief of staff and wrote special blog posts designed to promote media related to education of children in developing countries

iGEM (International Genetically Engineered Machine Competition) Team **2015-2018**

- Developed a web platform to communicate with researchers using HTML/CSS/JavaScript/Bootstrap (http://2017.igem.org/Team:Austin_UTexas_LASA)
- Constructed a unique DNA circuit system focused on producing and regulating L-DOPA (a precursor to Dopamine) in E.coli for Parkinson's patients at UT Austin and published into database

Silicon Labs, Inc. Internship Program **Summer 2018**

- Gained hands-on experience and exposure in several topics like speaker drivers, radio communication, soldering basics, and sensors

Personal Projects

Autonomous Agent Maze Game **2020**

- Implemented Reinforcement Learning and convolutional neural networks in Pytorch to train an agent to autonomously solve a maze

EduGuide Web Application **2020**

- Used React, MongoDB, and built a REST API using Django to develop a website to connect high school seniors to college resources

Awards

Jane Street Women in STEM **2019**
NCWIT (National Center for Women and Information Technology) National Winner **2019**
WiCS Bloomberg Hackathon Winner **2020**
iGEM Competition Bronze Medal **2017**

Skills

Proficiency: HTML/CSS/Bootstrap, Python, Java, React, C, ARM Assembly, AutoCAD, Robot Operating System, C++
Exposure: Git, Javascript, React Native, R, Android Studio, EAGLE