Damian Charczuk

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SUMMARY

Dedicated and passionate second-year Computer Science major at University of Illinois at Chicago (UIC) currently looking for an internship for the summer of 2020.

EDUCATION

University of Illinois—Chicago, Chicago, IL Expected December 2021
Bachelor of Science in Computer Science, Minor in Mathematics
GPA: 3.86/4.00

TECHNICAL SKILLS

Programming Languages: (proficient) Java, C++, C, Python; (beginner) Swift, Dart, Assembly
Spoken Languages: English (fluent), Polish (native), Spanish (conversational)
Other: G-Suite, Command-Line, Arduino, OpenCV, basic circuits

WORK EXPERIENCE

GPIP Intern at HCILab, UIC Summer 2019

- Assisted in the production of pollution monitoring software and hardware through the use of Android Studio and a Raspberry Pi.
- Researched capabilities of various microprocessors and sensors.

RELEVANT COURSES

Software Design, Programming Language Concepts, Computer Design Spring 2020
Machine Organization, Languages and Automata Fall 2019
Data Structures, Advanced Placement Computer Science A, Mobile Makers Mobile App Development

PROJECTS

American Institute of Aeronautics and Astronautics, UIC Fall 2019 to present

- Leading a team of four in the development of software that uses Python and OpenCV to gather image data obtained by the organization's rocket and process the image in order to determine the location of the rocket.
- Exposure to both hardware and software development in the form of a real-world task.

Institute of Electrical and Electronics Engineers, UIC Fall 2018 to present

- Coded and implemented Arduino microcontrollers for greenhouse surveillance to monitor and control water levels, humidity, and temperature.
- Developing software controls for the 2020 MRDC Robotics Competition robot designed by IEEE Robotics.

Mobile Controlled Lego Car, personal project Summer 2019

- Designed, built, and programmed a Lego car controlled by an Arduino microcontroller, which is controlled through a custom-made mobile app that controls the car's functions via Bluetooth LE.

Virtual Assistant, personal project Fall 2019

- Developing a virtual assistant that receives voice commands in order to autonomously lookup search queries on Google, launch applications, control the aforementioned Lego car via Bluetooth, provide vocal responses, and more through the use of Python and various libraries and APIs.
- Implemented facial biometrics via the OpenCV API for user authentication.

TECH CHALLENGES

SpaceX Hyperloop Pod Competition @ UIC Fall 2019 to present

- Assisting the electronics team in designing the telemetric systems in the UIC-IIT hyperloop pod.