

JOSEPH P. EDRALIN

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EDUCATION

RUTGERS UNIVERSITY, HONORS COLLEGE: SCHOOL OF ENGINEERING

NEW BRUNSWICK, NJ

B.S. in Computer Science, B.S. in Mechanical Engineering, and Minor in Mathematics

EXPECTED MAY 2021

- GPA: 4.00/4.00; SAT: 2370/2400
- Honors: Rutgers University Presidential Scholar (Full scholarship awarded to top 1% of students), Class Rank (2021): 1/963
- Coursework: Computer Architecture, Data Structures, Intro to CS, Linear Algebra, Discrete Structures I-II, Calculus I-V

TECHNICAL EXPERIENCE

DAGHER ENGINEERING, PLLC

NEW YORK, NY

ENGINEERING INTERN

JUNE 2019 – AUGUST 2019

- Restructured and redesigned 100% of the company intranet from the bottom-up using HTML, CSS, and JavaScript
- Analyzed building data on energy consumption to optimize sustainable building design using Python and Excel
- Designed building systems and floor plans using AutoCAD and Revit software for multi-million-dollar buildings in NYC

OFFICE OF INFORMATION TECHNOLOGY: COLLEGE AVENUE

NEW BRUNSWICK, NJ

RESIDENTIAL NETWORKING DISPATCH CONSULTANT

MAY 2018 – PRESENT

- Provided on-site technical support for patrons through network, program, and virus troubleshooting
- Facilitated a quick, efficient connection to the residence hall computer network and wireless networks for first-year students
- Ensured smooth operation of computer labs by providing friendly customer service and computer-related support to patrons

HYBRID MICRO/NANOMANUFACTURING LABORATORY

NEW BRUNSWICK, NJ

UNDERGRADUATE RESEARCH ASSISTANT, WITH DR. JONATHAN SINGER

MAY 2018 – PRESENT

- Optimized zinc oxide nanowire growth for sacrificial nanoimprint lithography to pattern complex nanoscale structures
- Awarded a scholarship from the New Jersey Space Grant Consortium (NJS GC) to conduct research during Summer '18

PROJECTS

MERAKHI – HTML/CSS, BOOTSTRAP, AND VARIOUS TECHNOLOGIES

AUGUST 2019

- Developing a fashionable smart bracelet targeted towards college students designed to combat sexual assault on campus
- Designing a website to promote the product and its mission to investors and developing the app to pair with the bracelet

INSTASCRAPER - PYTHON

JULY 2019

- Developed a web-scraping tool to retrieve user follower lists on Instagram and exported user account data for analysis
- Analyzed 850+ user profiles to determine correlation between follower/following ratio and gender with Pandas

AIRSENSE – RASPBERRY PI, ARDUINO UNO, PYTHON

MAY 2018

- Developed an autonomous environmental sensing platform attached to a drone to analyze different environmental parameters
- Integrated Raspberry Pi and Arduino hardware to allow for consolidation of 4 different air sensors and on-board GPS

LEADERSHIP EXPERIENCE

ENGINEERING GOVERNING COUNCIL - ACADEMIC AFFAIRS SUBCHAIR

FEB 2019 – PRESENT

- Compiled resources regarding class advisors and contact information for 2400+ students within the School of Engineering
- Addressed concerns and disputes regarding engineering curricula with deans after gathering feedback from the student body

RUTGERS ENGINEERING HONORS COUNCIL - FIRST YEAR MENTORSHIP CO-CHAIR

FEB 2018 – PRESENT

- Led program of 80 students that paired Engineering Honors Academy freshmen with mentors for guidance and development
- Promoted activities and opportunities that engage and benefit the Honors College and Honors Academy engineers

HONORS COLLEGE ALLY MENTORING PROGRAM - FIRST-YEAR STUDENT MENTOR

SEP 2018 – MAY 2019

- Mentored 4 first-year Honors College students and provided mentees with valuable insight on their college experience
- Arranged meetings with first-year students to foster a sense of community among the Honors College students

SKILLS AND INTERESTS

Technical Training (by proficiency): Java, C, HTML/CSS, MATLAB, Python, JavaScript, Tableau, AutoCAD, Solidworks

Activities/Interests: Brain teasers, Basketball, Running, Varsity Soccer/Track, Boy Scouts, *Black Mirror*, Settlers of Catan