

Christian Tonti

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EDUCATION

University of Maryland – College Park, MD
BS in Computer Science, Honors Citation
Intended Double Major in Information Systems

Expected May 2022
GPA: 3.75/4.00

SKILLS

Proficient: Java, Python, C, JavaScript, HTML5, CSS3

Intermediate: SQL, Assembly, PHP, Jinja2

Technologies: Linux, Git, Database Management, VISA Communication

EXPERIENCE

University of Maryland Electron Ring

June 2019 – Aug 2019

Software Engineering Intern

College Park, MD

- Expanded upon a Python Flask server to allow remote control and secure access to the accelerator's systems from anywhere on the campus network
- Created a browser-based dynamically loaded user control interface with Jinja2 and JavaScript which utilized HTTP requests to communicate with the server in the lab
- Deployed an InfluxDB and Grafana server to store and visualize large amounts of time-series data such as magnet power readouts in a human-friendly and efficient manner
- Migrated VISA communication with oscilloscopes from GPIB to LAN and wrote Python drivers which decreased transfer time of 200,000 waveform datapoints by 75%

Coexist Stables, LLC

June 2018 – Present

Webmaster

Mount Airy, MD

- Created and currently maintain a mobile-friendly website at www.coexiststables.com using HTML5, CSS3, Bootstrap 4, and JavaScript
- Manage site indexing with popular search engines, as well as site hosting and certification
- Ensure that displayed information is current and up-to-date, and that old information is removed

PROJECTS

Autonomous Unmanned Systems Stream, FIRE

Jan 2019 – Present

Project B.O.A.T.

College Park, MD

- Designed a system for a swarm of small autonomous boats to push a larger boat to a target area and researched the broader applications of the technology
- Constructed a working prototype which finds a target via an infrared beacon and communicates with other autonomous craft through radio
- Created a simulation in Processing which shows the acquisition of the target as well as the cooperation between craft as independent pushing motors in order to navigate

ACTIVITIES

Kappa Theta Pi Technical Committee

Dec 2018 – Present

- Plan and host technical development workshops for brothers such as GitHub tutorials, basic web design, and preparing for technical interviews
- Assist in the creation of a website for the University of Maryland chapter of the fraternity
- Market and spread awareness of fraternity-sponsored events and rush dates