Dawid Bycul

Undergraduate Student - Computer Engineering - University of Illinois at Urbana-Champaign

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Education

Computer Engineering, BS
University of Illinois at Urbana-Champaign

📅 Aug 2019 – Dec 2022   ⚲ Urbana-Champaign, Illinois   🎓 GPA: 3.83

High School Diploma
Downers Grove North High School

📅 Aug 2015 – May 2019   ⚲ Downers Grove, Illinois   🎓 GPA: 4.6

Professional Experience

Lead Course Aide for Freshman Electronics Project Lab
University of Illinois at Urbana-Champaign

📅 January 2020 – Present   ⚲ Urbana-Champaign, Illinois

- Leading Freshman in research and project creation for their area of interest, facilitating and inspiring communication and collaboration
- Maintaining communication with course professors regarding various groups' progress, with approximately 40 groups per semester

Digital ASIC Design Verification Intern
Argonne National Laboratory

📅 February 2021 - Present   ⚲ Online

- Developing a digital ASIC verification environment for a cutting edge X-Ray detector. Creating and executing a detailed test plan using SystemVerilog
- Automating previous test plans for on-going regression testing throughout the design cycle

Autonomy & Mission Solution SEPP Intern
Collins Aerospace

📅 June 2021 - July 2021   ⚲ Cedar Rapids, Iowa

- Synthesized the needs of stakeholders and utilized Python, Bash, and PowerShell to create a Chaos testing environment aimed at eliminating software fragility in system of systems Manned-Unmanned vehicle simulations
- The design focus of the environment was maintainability, versatility, and extendibility to future tests based on system needs. The latest version supported Local and Cloud environments for both Windows and Linux

Skills

Programming Languages

C, C++, SystemVerilog, x86, Python, LaTeX

Environments

- Linux and Windows
- Git
- Autodesk Inventor
- Google and Microsoft Office Suites
- Adobe Suite

Technical Skills

- Digital Verification and Testing
- Systems Engineering
- Optimizing Compute Performance
- Chaos Engineering

Communication

- Fluent in Polish, English, and experience with French
- Expertise in communicating in a high stress performance environment
- Expertise in project planning and giving concise technical project presentations

Achievements

- Co-treasurer and League of Legends coach for Illini Esports. Coached a team to the top sixteen teams nationally. Managed up to 20 people across both roles.
- Created a bicycle turn-signal and accompanying app. This turn-signal displayed left and right turns from the Google Maps API on handlebar lights and allowed the driver to signal a turn manually
- Accredited diploma for completing Polish school (Polska Szkola w Lombard in Addison, Illinois)