Bowen Dong

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github.com/bdn8

Education

Virginia Polytechnic Institute and State University, BS in Computer Engineering — Aug 2024 – Present

- GPA: 3.41/4.0

Experience

Quantum Computing Intern, Computational Fluid Dynamics & Propulsion Lab — May 2024 – Aug 2024
UVA – Charlottesville, VA

- Worked on Quantum Computing projects such as coding Gaussian Boson Sampling and CVQC
- Collaborated with a member of the Oak Ridge National Lab to measure resource consumption of a quantum simulation
- Developed public speaking skills through giving presentations to field experts

CPE Intern, Mechanical & Aerospace | UVA – Charlottesville, VA — Aug 2022 – June 2024

- Worked on an affordable health monitoring system using Raspberry Pi and proposed machine learning integration
- Implemented thermal analysis using FLIR Lepton Modules to estimate temperature with grayscale gradients

Radiology Intern, Fontaine Research Park | UVA – Charlottesville, VA — May 2022 – Aug 2022

- Researched effectiveness of drug delivery to cancer cells with exosomes
- Developed X-rays of cancer cells in rats, with and without exosome-drug-delivery
- Extracted exosomes from milk samples using High-performance Liquid Chromatography

Publications

A Low-cost Thermal Imaging IoT for Contagious Disease Monitoring — Feb 2023

Dong B., Wood R., Sun S.

- Presented orally at IEEE/ACM Connected Health: Applications, Systems, and Engineering Technologies 2023
- Proposed machine learning and sentiment analysis implementation for real-time thermal imaging analysis

Nucleic acid delivery by functionalized exosomes — June 2023

Vietmeyer J., Dong B., Huang T., He J.

- Oral presentation at Techconnect World Innovation Conference

Extracurriculars

Chinese American Society at Virginia Tech — Sept 2024 - Present

- External Vice President | April 2025 - Present; Freshman Representative | Sept 2024 - April 2025
- Developed value skills in event planning, communication, and outreach
- Oversaw all external initiatives and fostered amicable relationships involving other organizations and schools

Robotics — 2020 - 2024

- Build Team lead for Team Firefly 9064, 3x state qualifier
- Mentored a new robotics team and taught them leadership and management skills

Young Asian American and Pacific Islander Club — 2022 - 2024

- Painted a mural with members of the National Art Honor Society to raise awareness of Asian American and Pacific Islander Heritage Month and Women's History Month

Skills

Languages: C (beginner), Java (familiar), MATLAB (familiar), Python (intermediate), C++ (intermediate), LaTeX (intermediate)

Skills: Visual Studio, LTSpice, Quartus