DIMITRIOS NTENTIA

Robotics | Research | Biomedical Engineering | Machine Learning | Software Engineering

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SKILLS

- **Computer Languages**- C++, C, Visual Basic, Python (Pytorch, Tensorflow, Keras), ROS, ROS-2, Arduino C++, HTML, Fusion 360
- **Languages**- Greek (Native), Albanian (Native), English (Native), French (Intermediate), Italian (Intermediate)

EDUCATION

Bachelor of Arts, Computer and Information Science, Minor in Biology

Berea College – Berea, Kentucky *Expected Graduation- May 2024*

- GPA- 3.8, Spring 2023 Term GPA- 4.0
- Full Promise Scholarship – $236,000+ for tuition, room, and board

Relevant Coursework

Autonomous Systems and AI (Fall 2023), Theory of Computation (Spring 2023), Ecology (Spring 2023), Electricity and Electronics (Spring 2023), Programming Languages (Spring 2023), General Physics with Algebra (Summer 2022), Computational Intelligence (Fall 2022)

INTERNSHIP EXPERIENCE

Electrical Engineering Intern (full time) *May 2023 – August 2023*
Trane Technologies – Lexington, Kentucky (hybrid)

- Conducted efficiency testing for current schematic processes
- Developed solutions for highly engineered HVAC Trane patented systems
- Enlarged the processing capabilities of the automated schematic drawing generator by **24%**

RESEARCH EXPERIENCE

Undergraduate Research Assistant (full-time) *May 2022 – July 2022*
Purdue University Collaborative Robotics Laboratory (Mentor- Richard Voyles, Ph.D.) – Lafayette, Indiana

- Implemented Artificial Intelligence and reinforcement learning to enhance task performance
- Overperformed state of the art algorithms by 25%
- Co-Authored Publication: "Expert-Agnostic Ultrasound Image Quality Assessment using
- Deep Variational Clustering" (Link: https://arxiv.org/abs/2307.02462)

Undergraduate Research Assistant (full-time) *July 2022 – August 2022*
Cornell University Computer & Information Systems Summer Research Program – Ithaca, New York

- Conducted concise Research project on Robotics and assistive technology
- Gained exposure to cutting-edge computing research at the University

Undergraduate Research Assistant *August 2023 – Present*
Berea College Computer Science Department (Mentor- Jasmine Jones, Ph.D.) – Berea, Kentucky

- Developed a cutting edge LLM and UI, taylor made for people with dementia
- Conducted extensive research and user studies in collaboration with Lexington Memory Care
- Authored publication in the making: Chi Conference: "Cognitive stimulation therapy with AI-Enhanced memory integration for individuals with Dementia"

PROFESSIONAL EXPERIENCE

Senior Dell Technologies Manager (part-time)   *August 2021 – Present*
Berea College Information & Technology – Berea, Kentucky
- Supervised a diverse team of 15 technician specialists, providing coordination and training
- Managed updates and preservation of vital institutional technologies
- Improved service request times from 3 weeks to 4 days avg (by 375%)

EXPERIENTIAL LEARNING OPPORTUNITIES

Mechanical Team Lead, American Solar Car Competition   *August 2022 – Present*
Berea College Engineering Technologies & Applied Design (ETAD) Department – Berea, Kentucky
- Spearheaded drafting and redesigning of critical car components (aero shield and chassis)
- Generated and conceptualized a knowledge transfer pipeline

Co-Organizer, Tech Ethics Roundtable   *August 2022 – Present*
Berea College Computer Science Department – Berea, Kentucky
- Coordinated with sponsors including Google, to enhance civil discourse through public events
- Hosted 20+ tech ethics talks with speakers from ACM, US military, NSA, etc.

HONORS & AWARDS

- Member, *Sigma Kappa*, National Computer Science Honor Society   *April 2023 – Present*
- Member, Mortar Board National Honor Society   *April 2023 – Present*
- Berea College Dean's List for Academic Achievement   *2021 – Present*
- Berea College Student Employment Award for Exceptional Performance   *2022 – 2023*