

PALLAS-ATHENA CAIN

COMPUTER SCIENCE
- ART SCIENCE &
INNOVATION

CONTACT

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<https://pallasathenacain.com>

EDUCATION

ALLEGHENY COLLEGE

*B.S in Computer Science and Art
Science & Innovation 3.99 GPA
Summa Cum Laude*

- Robotic Agents
- Internet of Things
- Algorithm Analysis
- Artificial Intelligence
- Programming Languages
- Software Engineering

CRAWFORD COUNTY CAREER AND TECHNICAL CENTER

Electronics Technology 4.0 GPA

KEY SKILLS

Microsoft Office Suite
Adobe Suite
Google Suite
SOLIDWORKS
GitHub
3-D Printing
Soldering

CODING EXPERIENCE

Python
C++
C

JavaScript

AWARDS

Distinguished Doane Scholar

Allegheny College

2022, 2023, 2024

Foster B. Doane Prize in Art

Allegheny College

2024 and 2025

Computer Science Faculty Prize

Allegheny College

2025

Computer Science Outstanding

Junior Major Prize

Allegheny College

2024

PROFILE A highly motivated and enthusiastic learner and participant looking to expand her knowledge and skill base in STEM related professions. A skilled presenter and problem solver, able to work on complex problems in assignments whether alone or in teams to bring them to a successful conclusion.

WORK EXPERIENCE

COMPUTER SCIENCE RESEARCH ASSISTANT –

May 2023 - Present

ALLEGHENY COLLEGE, WATERSHED CONSERVATION RESEARCH CENTER

- Research, design, build, test, debug and underwater robots designed to check water quality in local water sources, AquaGator
- Solder electronic parts and attach sensors
- Automate sensor measurements and depth movements using Arduino
- Develop graphing and analysis software using HTML and Python
- Published Work: FLAIRS-37 Autonomous Underwater Robot for Water Quality Measurement of Northwest <https://doi.org/10.32473/flairs.37>
- Present work at conferences: Florida Artificial Intelligence Research Society, Regional Science Consortium, and NCUR

COMPUTER AND INFORMATION SCIENCE DEPT. TECHNICAL LEADER, ALLEGHENY COLLEGE

Aug 2023 - Present

- Create and teach curriculum on Electronics, Internet of Things, and Arduino to K-12
- Repair electronic equipment and robotics
- Assist in Artificial Intelligence Class laboratory sessions

NAVIGATOR PEER MENTOR, ALLEGHENY COLLEGE

Aug 2023 – Present

- Support and motivate my peers by creating schedules and providing resources to develop successful academic practices
- Collaborate with fellow NaviGators to create events that promote campus engagement and healthy academic habits

RECREATIONAL LEADER AND GYM SUPERVISOR, ALLEGHENY COLLEGE

May 2023 – Present

- Manage recreation and gym workers to ensure productivity
- Create and run events, manage tournaments and intramural athletics.
- Act as safety officer: CPR and first aid trained monitor and document fire extinguisher safety, write accident reports

MACHINIST TRAINEE FULL-TIME, ACUTEC

May 2022- Aug 2022

- Setup machinery for production
 - Operate CNC precision machinery to make Aerospace parts
 - Read and review blueprint material
 - Review G-Code and M-Code and adjust to produce proper part dimensions
 - Use precision measurement tools to grade parts within a tolerance
- ### SENIOR PROJECT- AM.I.: A Robotic Replacement Unrealized
- Robotic art piece that features two humanoid AI having a philosophical conversation about the boundaries of humanity
 - Best Senior Comprehensive Project in Computer Science
 - Best Senior Comprehensive Project in Art, Science & Innovation
 - Published Work: FLAIRS-38 Am.I.: Investigating AI Bias, Expression, and Humanities Through GPT-Powered Robotics
 - Presented at OCWiC 2025, and NCUR

CERTIFICATIONS

Advanced Technical Certificate in Electronics Technology, CCCTC June 2021
Software Development with Python, Allegheny College June 2023