

PALLAS-ATHENA CAIN

COMPUTER SCIENCE
- ART SCIENCE &
INNOVATION

CONTACT

PallasAC02@gmail.com

(814) 547-1518

EDUCATION

ALLEGHENY COLLEGE

*B.S in Computer Science and Art
Science & Innovation 3.9 GPA*

- 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

Doane Scholar 2023-2024
Allegheny College
2024

Foster B. Doane Prize in Art
Allegheny College
2024

**4-Leaft award for Outstanding
4-H Family Living**
4-H at Crawford County Fair
2017 and 2021

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
- Publish Work: 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 and Regional Science Consortium
- Create and teach curriculum to Highschool and Middle school students

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: A.M.I.

- Robotic art piece that features two humanoid AI having a philosophical conversation about the boundaries of humanity
- Python files on Raspberry Pi Pico W microcontroller for servos, generation and sound
- 3-D printed skull and sculpted body

CERTIFICATIONS

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