

# AAM @ CNU

## Partnership Opportunities

3 October 2024

Dr. Anton Riedl

School of Engineering and Computing\*

\* launch date: tomorrow

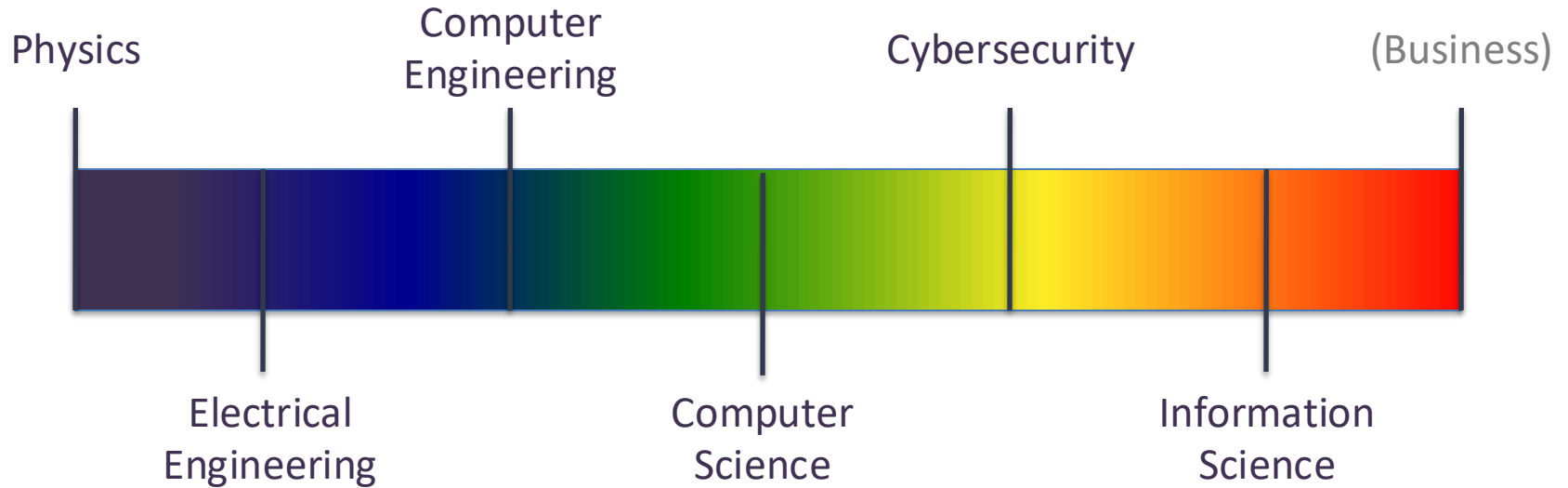


# Christopher Newport University

- Primarily Undergraduate Institution
- Engineering and Computing embedded in the Liberal Arts
- Located 2.6 miles from here
- Beautiful campus, gorgeous buildings, wonderful people
- About 4,500 students (mostly undergrads, some grads)

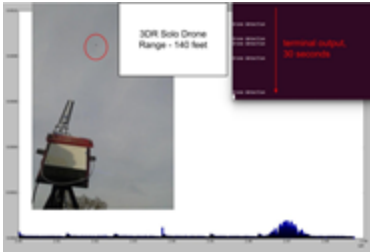


# Engineering and Computing Disciplines



# Our Students – Your Workforce

- Undergraduate degrees in each of the disciplines
- Graduate degree in *Applied Physics and Computer Science*
- Capstone projects with uncrewed systems (air, land, sea)
- Student UAS Competition Team



# Faculty Research Areas

**Astrophysics**

**Power & Control**

**Robotics & UAS**

**AI & ML**

**Nuclear Physics**

**Communication  
& Systems**

**Software  
Engineering**

**Cybersecurity**

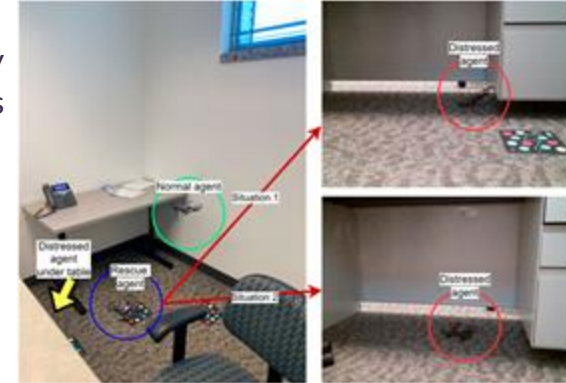
**Big Data, Data Science, Modeling, Simulation, Optimization**

# AAM-Relevant Research

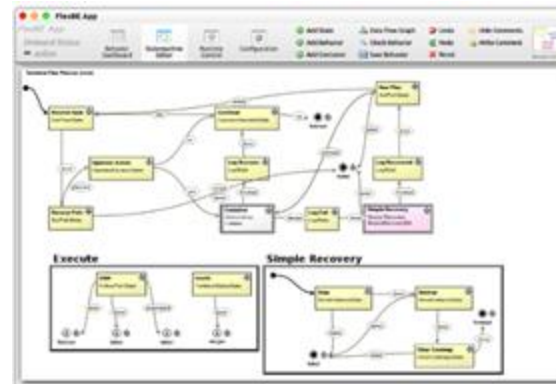
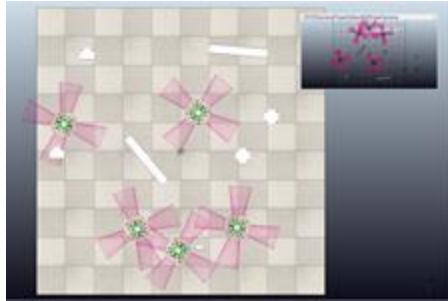


Autonomous navigation and obstacle avoidance

## Operational Resiliency of UAV Swarms



## Simulation and Experimental Design



Robot behaviors  
Control and navigation  
Software development

# Innovation Hub @ CNU

- NSF EPIIC grant - *Enabling Partnerships to Increase Capacity*
- Connect faculty (and students) with regional industry and research partners
- Funding available for pilot projects in the areas of AI and Data Science

Web: [cnu.edu/ihub](https://cnu.edu/ihub)

Email: [riedl@cnu.edu](mailto:riedl@cnu.edu)



# Science and Engineering Research Center





# Makerspace and Machine Shop



# Autonomous Systems & Drone Lab



# Opportunities for Industry

- ❑ Research collaborations with faculty and students
- ❑ Joint grant proposals (CNU's PUI status can be helpful)
- ❑ Capstone projects in areas of shared interest
- ❑ Access to interns and new graduates (e.g., Pizza My Mind)
  
- ❑ Starting in Spring 2026: Spaces in new Engineering Research Center

