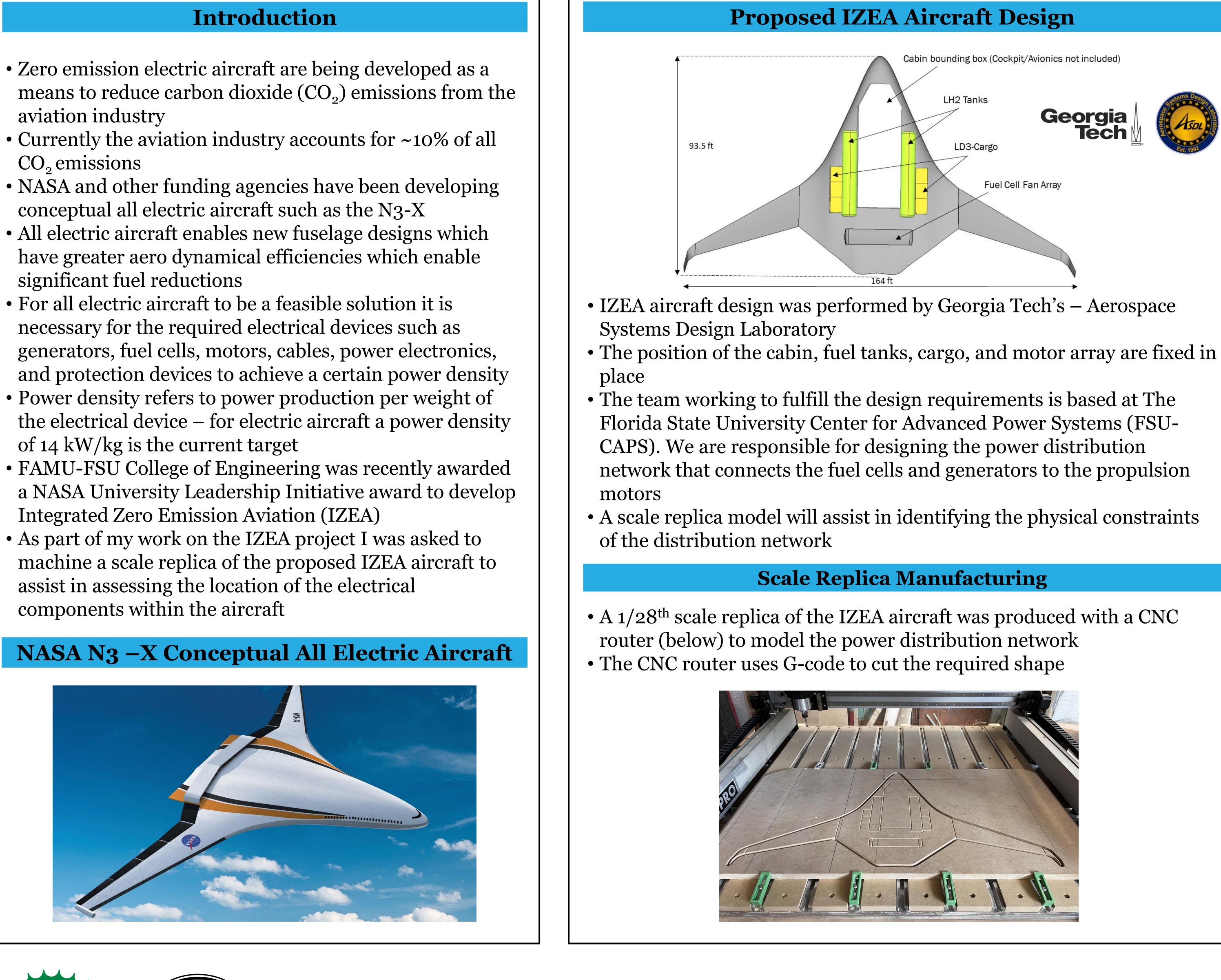
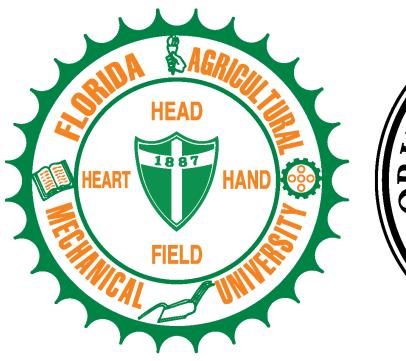
# Scale Replica of a Zero-Emission Electric Aircraft - IZEA

Adin Weatherby, Peter Cheetham, and Sastry Pamidi

- aviation industry
- CO<sub>2</sub> emissions
- conceptual all electric aircraft such as the N3-X
- significant fuel reductions
- For all electric aircraft to be a feasible solution it is necessary for the required electrical devices such as
- of 14 kW/kg is the current target
- Integrated Zero Emission Aviation (IZEA)
- assist in assessing the location of the electrical components within the aircraft





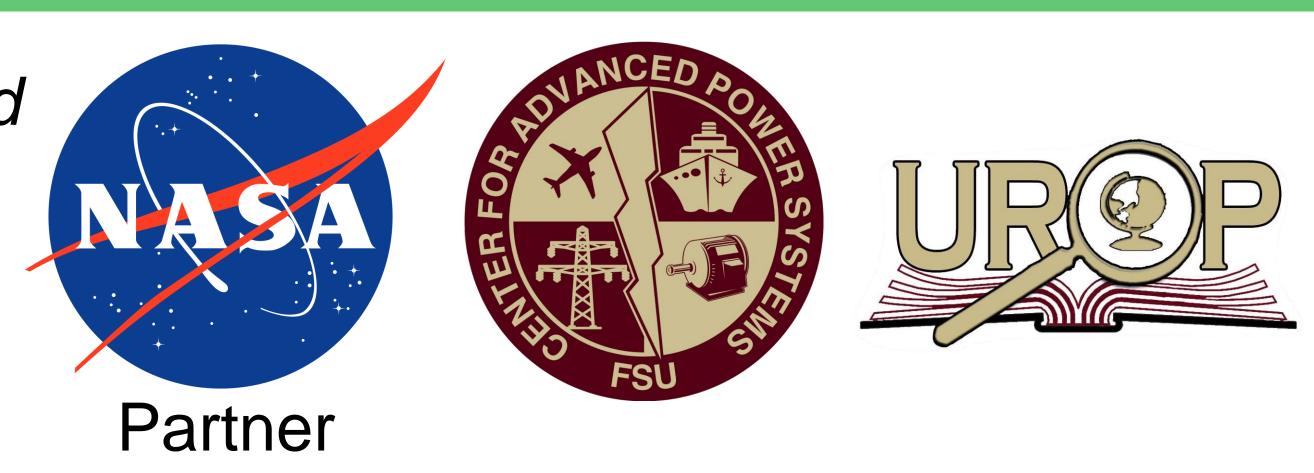


## Electrical and Computing Department, FAMU-FSU College of Engineering

## FAMU-FSU College of Engineering



Integrated Zero Emission -Aviation



- at FSU-CAPS in an interresearch faculty and professors
- I learnt to use drawing packages such as CREO and Carbine Create
- applicable to projects

- objective optimization

The undergraduate peers that contributed to my work on the project: Simon Hart, Elam Richardson, Chelsea Latham, Carter Thomas and my UROP mentors Dr. Peter Cheetham and Dr. Sastry Pamidi

## **Skills Learnt Through UROP**

• Through UROP, I was able to work

disciplinary team which consists of undergraduate, graduate, postdocs,

(seen right) for the CNC Router



• Undergraduate electrical engineering coursework has a high emphasis on theory that is not always directly

• My skill development to assist research adds real-world lab experience to the electrical engineering curriculum • Working as a team at FSU-CAPS taught essential soft skills for future collaborative work

### Conclusion

• Zero emission aviation is an ongoing area of multidisciplinary research requiring iteration and multi-

• I am learning the physical, electrical, and thermal constraints of the IZEA aircraft

• The opportunities provide by UROP allowed me to further my skills as an electrical engineer

### Acknowledgements