



SETH YARBOROUGH

Seth Yarborough is a graduate student working on research related to compressors. He has been a student member of ASHRAE and has been involved with the ASHRAE chapter.

CONTACT

PHONE: 405-744-0390

EMAIL: Seth.Yarborough@okstate.edu

FUNDING

ASHRAE Grant \$4300

Local Funding \$800

PARTNERSHIPS

Donation of compressor

Chapter SA mentorship

Etc

DURATION

4 months to design, build, and test

ORGANIC RANKINE CYCLE TEST STAND

Oklahoma State University

OUR STORY

The ORC project allowed us the opportunity to learn about the Rankine cycle operation first hand. We learned how to design and use our hands to build and test an operational project. Working on this project lead me to stay on at OSU and pursue a masters in HVACR.

OUR PROJECT

Our project was to design and build an Organic Rankine Cycle test stand. The stand used R-134a and steam to produce power using a scroll expander. The stand would allow thermodynamics students the opportunity to see firsthand how the Rankine Cycle operates and allow them to use and analyze real data.

