



Cale Martie (They / Them)

Principal Scientist

AiRANACULUS

Cale Martie joined AiRANACULUS with experience and passion for Digital Signal Processing with a history in DSP algorithm development and simulation. They received a Bachelors of Science from University of Kentucky in May of 2018 after focusing their engineering electives on signals related classes. Cale also spent 2 years taking Graduate Level Radar Signal Processing courses at University of Alabama in Huntsville.

Starting work at Leidos subsidiary, Dynetics Inc., out of college in 2018, Cale worked on Real Time Hardware-In-The-Loop Simulations of Surface-to-Air Missile Radar systems specifically focused on DSP simulation, detection algorithms, and waveform output testing. Additional work they completed at Dynetics was on Kalman Filter tracking algorithms, Synthetic Aperture simulation, and radar computer decision-making functionality. Cale moved on to work for Relative Dynamics Inc, a Space Communications Systems company, as an Electrical Engineer for Jacob's JETS Contract with NASA. During this time they worked on firmware for NASA's SPLICE (Safe and Precise Landing Integrated Capabilities Evolution) project, and aided in the design of a space-grade Wireless Access Point as the Project Engineer.

Cale has experience in a variety of programming languages including C++, MATLAB, Python, and VHDL. Away from the office, they spend time playing guitar, piano, and the Electronic Wind Instrument as well as playing tennis and watercoloring.