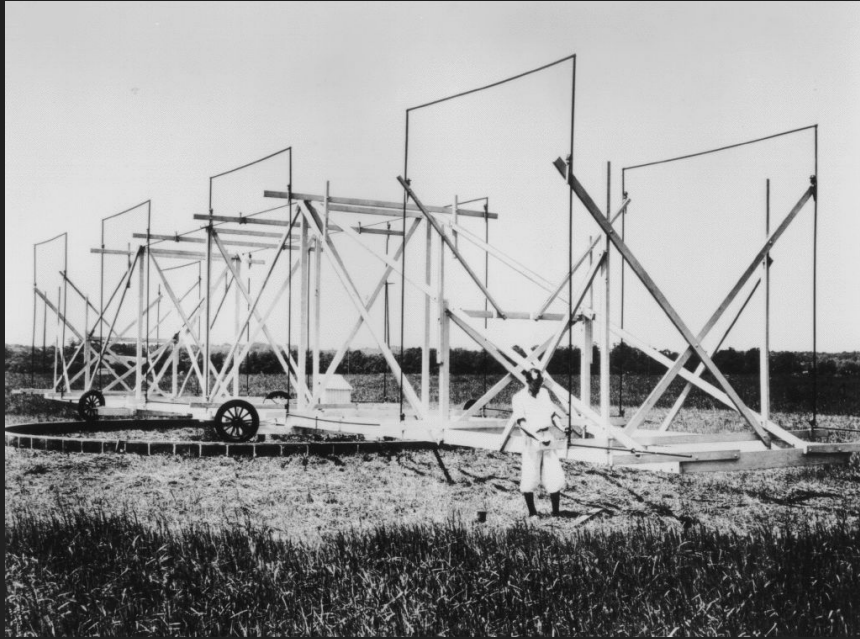


Quarknet Radio Telescope

Ryan Thornton and Ben Hardin

Marmion Academy and Batavia High School

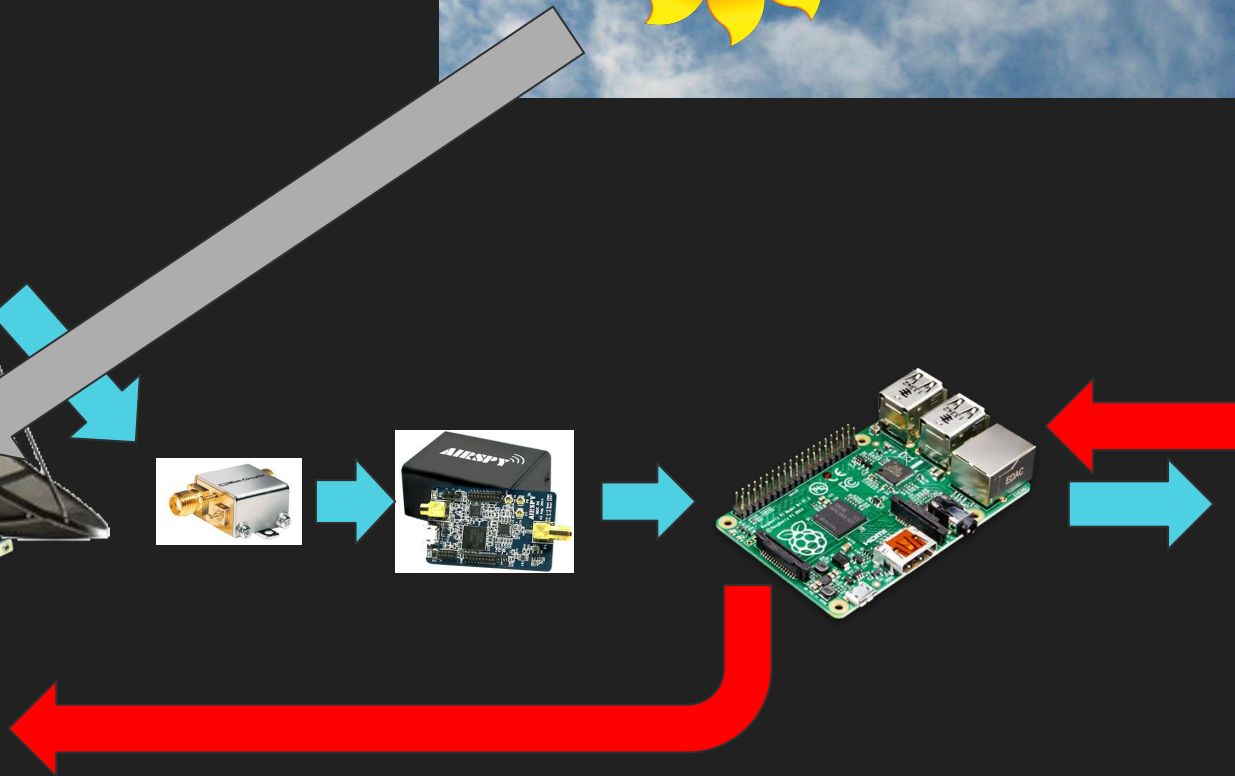
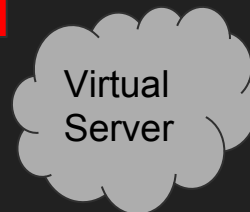
Introduction to Radio Astronomy



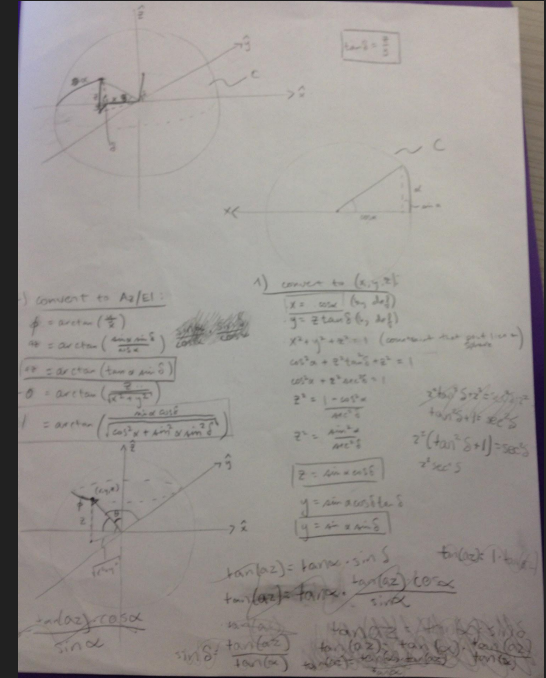
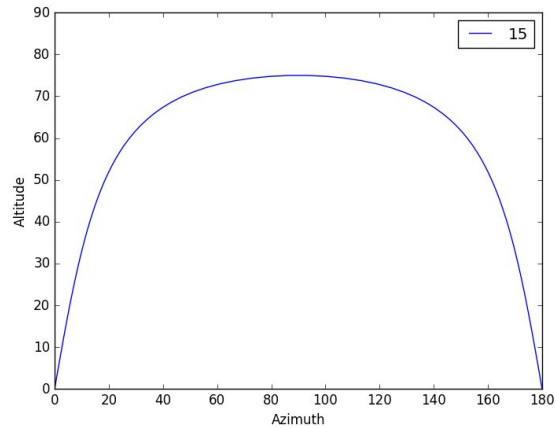
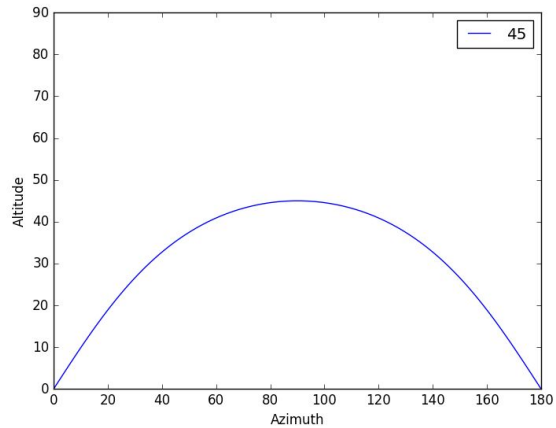
Context of the Quarknet Radio Telescope



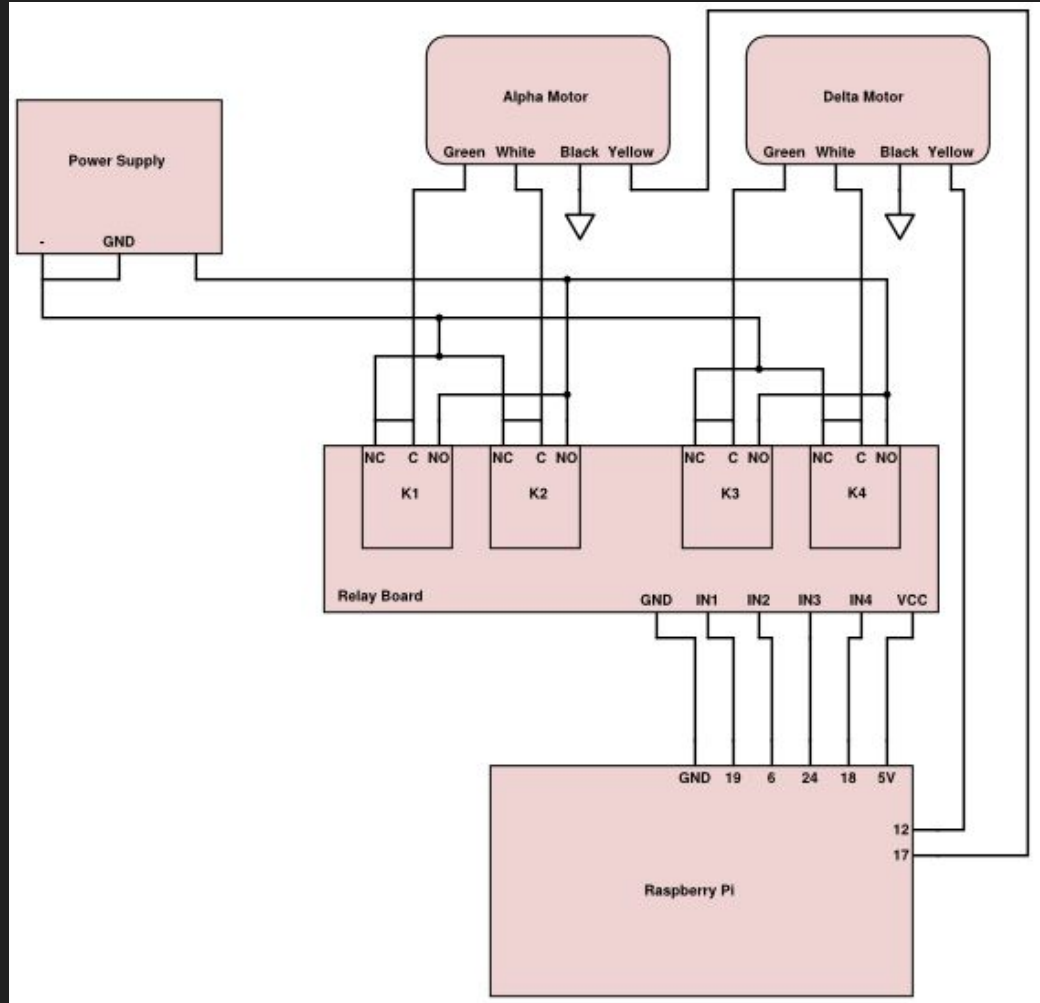
Equipment - General



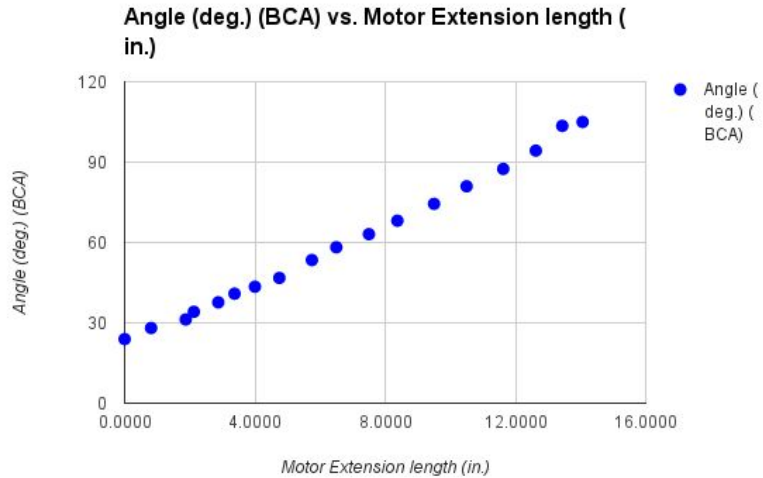
Coordinate Conversions



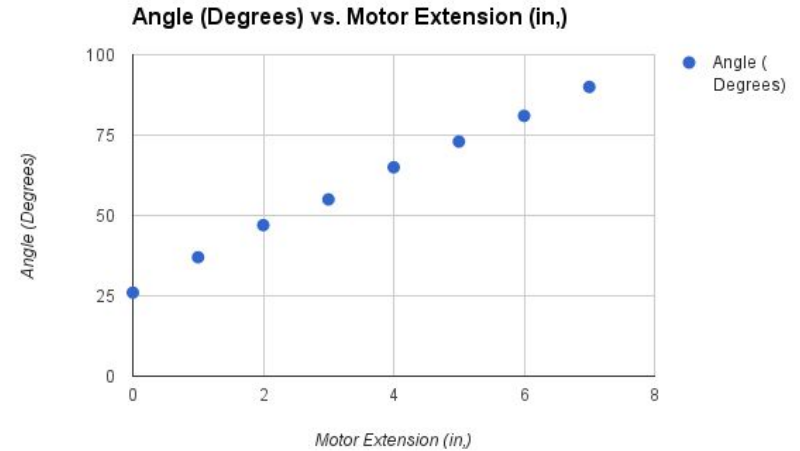
Equipment - Motors



Data - Motors

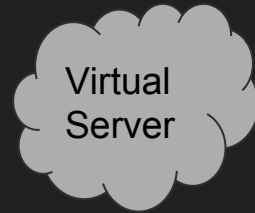


Alpha Motor

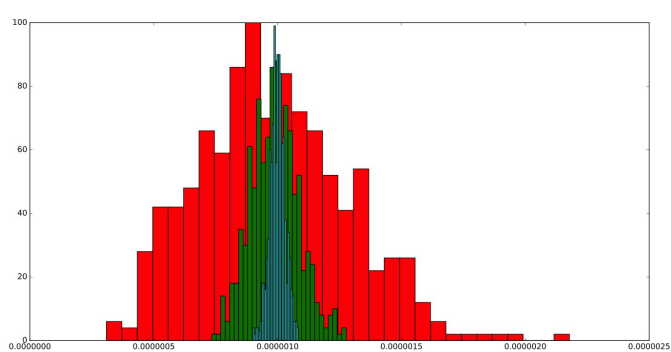
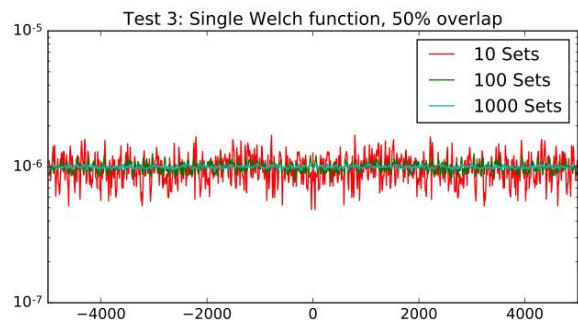
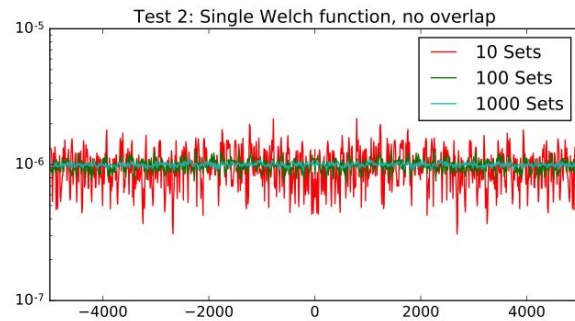
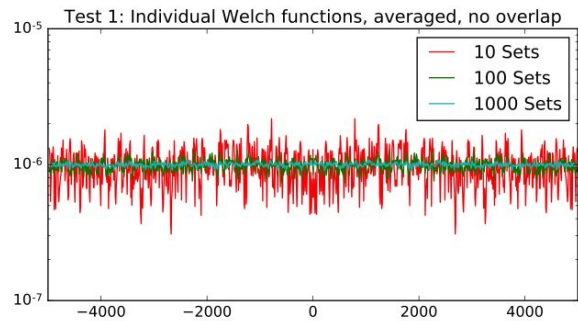


Delta Motor

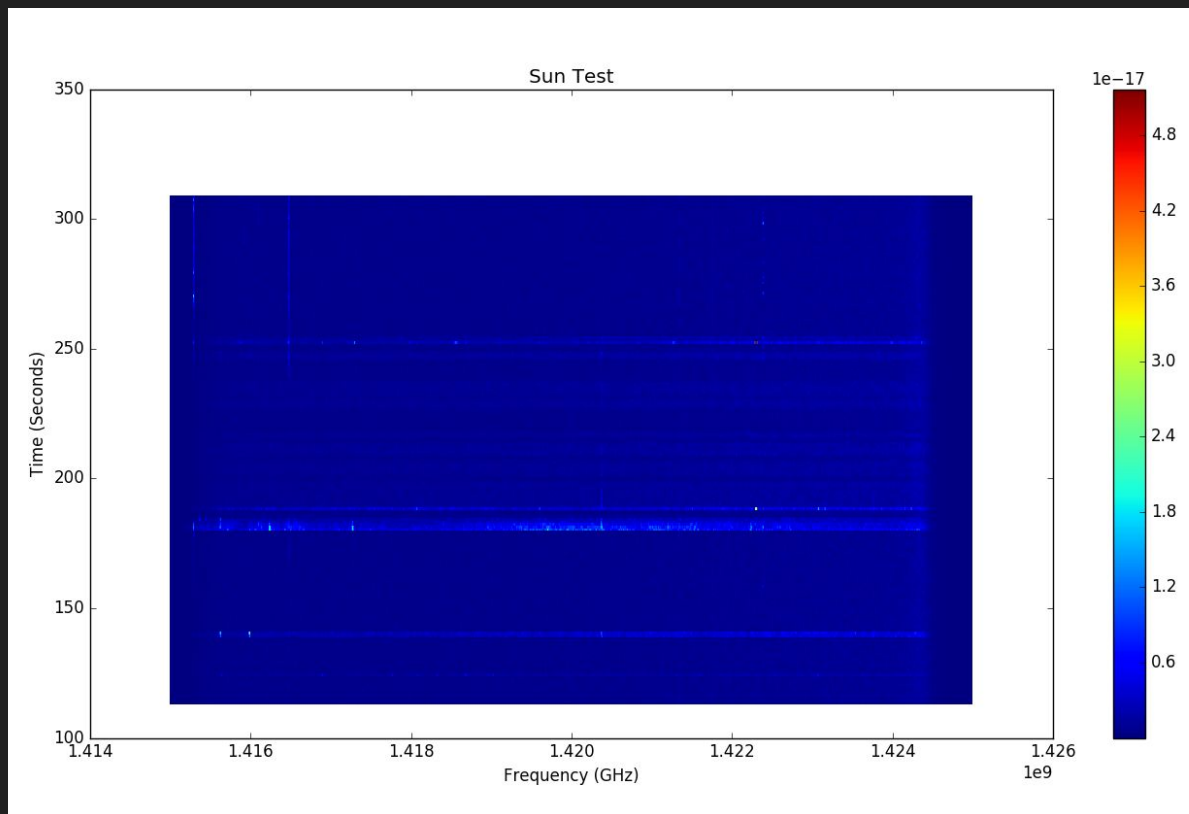
Equipment - Data Acquisition



Data



Analysis



Results

“Obviously your pointing probably isn't perfect, but squinting at your plot, an S/N of ~ 10 dB doesn't seem too outlandish, and that would be vaguely consistent with expectations.” - Adam Anderson, PhD. Lederman Postdoctoral Fellow, Fermilab National Accelerator Laboratory