

Company: Allion Test Labs
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Discipline: Computer Science
Internship Level: Junior Year
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About Allion

Allion was established in 1991. Through custom test plans and automation, Allion offers engineering services for performance and compliance testing. The specialty of the lab in Beaverton is advanced Wi-Fi testing. For performance testing, there is an anechoic chamber and other equipment that allows isolation of signal. Using attenuation simulators, several use cases can be tested in-depth.

My Role at Allion

Projects at Allion coincide with contracts from third parties. Often these projects involve testing a new product from those companies. I worked on a couple of those projects, but worked on side projects as well when we were between contracts. I developed automation for the attenuation equipment, and wrote full tests that used that automation. My mentor Chad was extremely helpful, always willing to teach me about wireless technology and testing.

Rather than having departments, Allion is split into teams per project. When I first started my internship I started out helping analyze results from the last round of testing for the Nook Color, when it was still pre-release. When that project ended I did independent work until another testing contract started later on in my internship.

The Projects I Participated In

- Nook Color
- Writing a Python library for the Azimuth Adept-N
- Writing a Python library for the Azimuth Ace
- Writing Automated Testing which employs the Adept-N and Ace
- Super Top Secret new product testing from a new startup company
- Super Top Secret new product testing for Amazon