

# Personal Experience

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During my 5 weeks at Santa Cruz Institute for Particle Physics (SCIPP) I did 3 main projects that all turned out to be successful. My first project was to design and conduct an experiment to figure out how many Muons are blocked by different substances. The second project was to repair SCIPP's Tesla Coil Suit which only took a few days of work. The third project I was involved in was the Aerial Detector of Muons project (ADOM) that would take Muon counts from a weather balloon at different altitudes. In all of these projects I learned the value of working as a team and collaborating in a professional college level environment.

For the Muon shielding project I collaborated with Nathan Brink who was another intern. We came up with a design that would give us the most accuracy in our project. We collected data and compared it with data from Fermi lab and found our data was different. We communicated with Steve Kliewer who took the data at Fermi Lab and we are still trying to find out why our data is different. In the end we were successful and we got acceptable data that could use some further analyzing.

SCIPP's tesla coil is an outreach program at SCIPP that travels to different schools and does a Tesla coil Demo. So Nathan Brink and I

decided to repair the Tesla suit to make it more comfortable and safer to use. We did this in approximately 3 days and this project was greatly appreciated by the SCIPP staff. The Tesla Coil has inspired many students to take on the challenge of Physics.

The third project I worked on was the Aerial Detector of Muons project. This project was an ongoing project which was started during last year's internship. When we first attempted to launch this project this summer not everything was ready and people weren't as prepared. So I volunteered to be project manager and I guided the other interns to help us succeed in the mission of launch ADOM. We launch on 7/26/07 and we got data that is in the process of being analyzed. We were all successful in this team project and we all were happy with the results.

In conclusion this year was a complete success. We all learned the value of working in a college environment as a team. All of the projects I was involved in were a success which made me very happy. This experience is definitely one to remember and I plan on applying again next year.