



The Worshipful
Company of
Shipwrights

Case Study – Patrick Conway – Marine Engineer apprentice (funded 2018-19)

Servowatch

<https://servowatch.com/>

I am Patrick Conway, I am 19 years old and I have an apprenticeship with Servowatch, a Marine automation and integrated system solutions company. I go Colchester institute for my college work, and I have just finished the first year of my apprenticeship. At work I started in August 1st, 2018 and began working on a practical IPMS system for the Philippines navy. That involved working with power blocks, a cat6 ethernet network, marine approved screens, PC microprocessors and Wago slices and Allen Bradley hardware. I was mainly finishing up the system and getting the system ready for a FAT and eventually shipping the complete system to the shipyard in February. At the same time at college I began learning about wiring and electrical motor systems and then working on milling and turning as well, producing items like v-blocks, tail stock, scribers etc.

From February to March 2019 I began working with CAD files and using GNU image manipulation to make Jpeg files to be implemented into the software we use in our military software. I used programs such as inscape and GIMP to create the relevant images. I also started to begin the welding classes at college, more specifically MIG welding and also doing all of the course work that goes along with it.

From May to August (now) 2019 I have been working on a full time project at work to assist in the development of the software for one of our military contracts, liaising with clients and our INOP's team who are based in Mumbai, as well as still working on some practical systems for ISIS replacement projects, including being involved in the actual FAT procedure with the professional from DMV and the clients both being in the room at the time. At this time at college I was finishing up the welding work and the practical work and the course work involved. I also had to start and finish the business improvement unit. And then finish up the year at college.

In conclusion I believe I have made real improvements this year, at college I made big strides in my development not only with learning how to work with the specialist hardware that we use here and in working with the software which has become a big part of my job, especially considering how I didn't have any engineering qualifications beforehand. I have enjoyed thoroughly my first year at Servowatch and am looking forward to the future.