

Erin Revie

I grew up near Harrogate, North Yorkshire and received a First-Class MEng degree in Electronic and Electrical Engineering at Newcastle University.

Summer placements at Control Techniques varied from layout design work, creating code for drive control and hardware testing. Additionally, I did my university Industrial placement at CT, which involved designing, building and testing a complete drive accessory. Everyone was always very welcoming and supportive. As all the students would live in the same town for the summer, there were a lot of trips to the pub, BBQs and days out to the coast. Summer schools were good to catch up with other E3 scholars from my university and a relaxed way to learn some soft skills, the evening socials were always pretty fun and the final evening dinner was a great opportunity to hear some wisdom from a guest speaker (Orla Murphy, IET Young Woman Engineer of the Year and Top 50 Women in Engineering at the time, was a particular favourite of mine. She had also gone on the following year to become one of the Royal Academy of Engineering Trust's Young Engineers of the Year).

Since graduating I have moved to Shrewsbury and commute to work with my work friends. I do a fair bit of mountain biking in the Shropshire hills and Wales, both with CT friends, many of them former E3 scholars, and friends in Shrewsbury.

My work since graduating has been in R&D. I have worked mainly in circuit design and layout for high and low voltage systems, user interface, branching over to mechanical engineering, and conformal coating, which has been more chemistry based. Working with Bristol University, I have been involved in the design, layout, build and test a variant of an existing drive to investigate the use of gallium nitride power devices and I have visited Bristol for layout work and to see their lab investigations around GaN. Also, I have attended power conferences and shared the current new materials, investigations and roadmaps in power electronics with my colleagues.



Now I am a Development Engineer based in control electronics, though I still get to work in a variety of different areas. We are in the process of developing a new family of products, for which I am involved in designing the user interface. I have specifically been in charge of designing and testing the LED module and NFC antenna hardware. Additionally, I'm working with marketing to conduct human-centred design testing to get feedback on product design and functionality. Currently I'm also working on investigating a new nano-conformal coating and have been able to visit the manufacturer's test site to see how the coating is applied. I'm designing and performing environmental tests on the coating to see if it will provide the protection we need, as well as working with test houses for external environmental testing.

Previous E3 graduates have been sent abroad as part of their graduate training, to Italy and Germany. Before the 2020 epidemic, there was the potential for me to work for a few months in Holland with the sales team to gain some more experience in that area and also to enjoy life in Holland for a couple of months. It may still happen when everything is back to normal.