

E3 Academy Graduate Profile: James Hallatt



I joined the E3 Academy in 2012 as a student of the University of Nottingham, joining Control Techniques in October 2016 after graduating. During the E3 Academy Scheme I had three summer placements at Control Techniques, giving me invaluable experience in a range of different departments. These placements not only helped my university studies but gave me an insight into the workings of industry.

During one of my summer placements I was creating software to develop an algorithm for sensor-less motor fault detection. Writing this software greatly improved my C# programming and allowed me to investigate the results different faults cause within motor. This investigation gave me a hands on role in creating motors with specific faults and improve my analytical ability by using the software I had created to find discrepancies between a healthy motor and one with specific damage.

In another of my summer placements I was tasked with creating an automated cost calculator to be distributed on the CT Support Website. The cost calculator allows staff working with customers to fill in details about the size and power output of motors, then the calculator will find the cheapest solution and give an itemised breakdown of the products required. This project gave me valuable knowledge about the products Control Techniques make and helped me improve my programming ability.

As a whole the E3 Academy was very beneficial to my degree financially and educationally. Projects undertaken during summer placements helped me tackle problems and keep on target with my dissertation. Control Techniques paid for our accommodation and food over each summer placement, this allowed for all their students to do lots of different activities during summer placements, making the whole placement fun and sociable.

I am now most of the way through my first placement as a full time employee of Control Techniques, in the placement I am developing software to be used on drives and encoders to allow communication of an electronic nameplate. This will decrease set up time for large systems and improve maintenance times when replacing drives within systems.

Having worked at Control Techniques during three summer placements over the course of university it made the transition into full time work easy as I already knew what to expect and knew a lot of the people I would be working with.

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