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Embedded Software Engineer

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At CDO^2 I work as an embedded software engineer developing electronics and microprocessor software to create 2D and 3D current density image measurements using magnetic field sensor arrays. These new sensors are targeting the growing Electric Vehicle market, specifically improving battery life and safety by being able to measure the current flow inside cells, a feat that has never been achieved before.

My PhD research in cosmology, at the Institute of Cosmology and Gravitation, focused on combining different probes of cosmology, specifically weak gravitational lensing, and redshift space distortions, to improve constraints on dark energy. I learnt many valuable skills including project management and working collaboratively which has helped considerably in my new role.

My advice would be to take advantage of non-research opportunities. I engaged heavily with outreach which improved my confidence, communication and interpersonal skills significantly. Learn hard skills outside of your research, eg programming, machine learning etc. Make the most of the freedom you have as a PhD student. It's a privilege to have such flexibility and autonomy.

"A PhD is an excellent opportunity to learn and develop many new transferable skills for future employment."