



1 Graduation assignment:

Product families – Design a standardized solution

EDS-Casting & Forging (EDS) is a company specialised in the development and supply of metal parts focussing on castings and forgings. Its customers include DAF Trucks, Caterpillar, Krone, and Schmitz-Cargobull, as well as smaller companies which have no in-house engineering or casting capabilities. During development projects, EDS often helps with prototyping or supplying series production. Based in Amsterdam but with strong manufacturing partners worldwide, the company can supply 3D printed prototypes in plastic, aluminium, stainless steel, as well as sand cast or investment cast metal parts in small to higher series. Check out www.edscasting.com for more info.

Between the various companies and industries that we meet and design for, we see many overlapping solutions. Currently company X designs and produces a certain part, while both competitor #2 and #3 do the same, thereby wasting valuable resources by oftentimes not having the most efficient design, production process or logistics.

The purpose of this graduation assignment is to develop a standardized solution that can be used by various companies. The assignment has a very technical nature in which you will learn how to really design and manufacture a (metal) product with a specific production process.

You will go through all phases of product design starting with a short market analysis and problem definition. After a broad conceptual phase, the solution will need to be engineered to perfection. Examples include structural (FEM) validations, incorporating clients wishes and requirements, and selecting the right production process and resulting tolerances.

Alternatively EDS is open to the development of a (more) consumer oriented product. We already have some ideas, but if you have an idea we can make it work together!

This work you will do in parallel to EDS' regular activities – and if you are successful, both your design and yourself will find continuation at EDS!

Very few assignments can offer you such a chance! Plus, EDS provides a pleasant environment to work in, with a TBD monthly fee. Of course, to qualify, you need to show convincing experience in engineering work as well as in "tinkering" (a person that can repair their own motorbike has a clear advantage), and above-average CAD skills. A willingness to travel – including trips to China – is also required.

Does this specific assignment make you heart beat faster or do you have another interpretation? Send us an email with a short motivation/CV and optionally a portfolio to enzio@edsinnovation.com

