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Fré Hipgrave Ederveen

Engineering

Trainee Patent Attorney

Fré Hipgrave Ederveen studied Aerospace Engineering at the Delft University of Technology. During his studies he completed a traineeship at the R&D department of the world's leading integrated steel and mining company in Ghent, where he researched the abrasion resistance of steel. During his traineeship he specialized in metallurgy and tribology.

Fré continued the abrasion research for his master's thesis project at the faculty of Aerospace Engineering in Delft with a comprehensive analysis of the correlation between the system dependent variable abrasion and intrinsic material properties, to design novel abrasion resistant steel alloys.

Driven by his passion for innovation and broad interest in technology he started his career in the oil and gas industry on a collaboration between private companies and research organizations in a so-called Topconsortia for Knowledge and Innovation (TKI) project. In this context he worked closely with the Dutch research institute TNO to optimize offshore gas production from assets in the North Sea, especially maturing gas assets, which have a strong dynamic behaviour.

Working experience

- Trainee Patent Attorney, V.O. (2016-present).
- Production Optimization Engineer, Wintershall Noordzee B.V. (2015-2016).
- R&D Engineering Trainee, ArcelorMittal Global R&D Gent (2012-2013).

Education

- MSc in Aerospace Engineering, Delft University of Technology (2014).
- BSc in Aerospace Engineering, Delft University of Technology (2014).
- Minor: Renewable and Sustainable Energy Technology.

Publications

- Xu, X., Hipgrave Ederveen, F. C., van der Zwaag, S., & Xu, W. (2016). Correlating the abrasion resistance of low alloy steels to the standard mechanical properties: A statistical analysis over a larger data set. *Wear*, 368-369, 92-100.
- Xu, X., Xu, W., Hipgrave Ederveen, F. C., & van der Zwaag, S. (2013). Design of low hardness abrasion resistant steels. *Wear*, 301(1-2), 89-93.

Languages

- Dutch
- English