Max Derie

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EDUCATION

2020 - 2021	**London Business School, London, UK**
	Master in Analytics and Management
	GMAT: 750 total score
	Relevant coursework: Business Data Science, Finance, Strategy, Organisational Behaviour
2018 - 2020	**Catholic University of Leuven, Leuven, Belgium**
	Master (M.Sc.) in Mechanical Engineering – Magna Cum Laude
	Nominated for Siemens Industry Software dissertation award
	1 year Erasmus Exchange at Politecnico di Milano, 93% weighted average (2018-2019)
2015 - 2018	**Catholic University of Leuven**
	Bachelor (B.Sc.) in Engineering Science – Magna Cum Laude
	Bachelors (B.Sc.) in Mechanical and Electrotechnical Engineering, Magna Cum Laude
	Relevant coursework: Economics, Statistics, Analytics

BUSINESS EXPERIENCE

Sep 2019 - Jun 2020
UZ LEUVEN, Leuven, Belgium
Belgium's largest university hospital, with over 10 000 employees
Horizon 2020 robotics project developer (Master's thesis)
- Pioneered the development of a novel autonomous healthcare robot system for the automation of service cart transport, capable of freeing up to 25% of the time spent by medical staff
- Proposed a low-cost, human-friendly design with sensitive elastic bumpers for safe robot-human interaction, resulting in a predicted reduction of costs of >50% compared to a hospital employee
- Implemented trajectory following algorithm and collision detection system based on fusion of acceleration, touch, rotation sensors in C; enabled robot to distinguish between contact with humans and carts

Jul 2019 - Aug 2019
BARCO, Kortrijk, Belgium
BEL20 company active in 90 countries specialised in optical and imaging technology
R&D engineering intern
- Investigated quality of outsourced optical components by designing testing set-up for light beam characterisation and processing measurements using self-written scripts in Python and Excel
- Presented to managers that >75% of components did not meet requirements; advised to renegotiate supplier agreement; streamlined testing by reducing set-up size by >50%

Jul 2018 - Aug 2018
ARCELORMITTAL, Ghent, Belgium
World's largest steel manufacturer with yearly output of 100 million tonnes of high-end steel
Process engineering intern
- Evaluated steel casting installation performance by investigating anomalies in sensor measurements of key casting width parameter with large effect on influence on product quality
- Analysed data using Matlab and Excel to model sensor drift; cross-compared historical trends to maintenance instances to account for external causes influencing measurements
- Cooperated with ICT to implement multi-parameter condition based maintenance model to signal sensors requiring calibration and maintenance; estimated machine downtime reduction by up to 30%

Sep 2017 - Jun 2018
KU LEUVEN IN COOPERATION WITH PEC, Leuven, Belgium
World-scale battery test equipment manufacturer contributing to 20 000 000 battery cells monthly
Engineering project team leader (Bachelor's Thesis)
- Led a team of 4 engineering students in the development of a fireproof insulating industrial gate system; managed client relationships; structured decision-making process through quantitative analyses of options
- Awarded with a 16/20 grade; team performance graded best of all participating teams; kept investment cost 35% below target

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COMPETENCIES AND INTERESTS

- **Volunteering**: tutored 20 first-year students in core engineering topics such as Mechanics and Analytics
- **Business training**: participated in a series of business workshops aiming to equip students with essential business skills, such as leadership, negotiation and case solving (2020)
- **Languages**: Dutch (native), English (fluent), French (intermediate), German (basic), Italian (basic)
- **Programming**: MS Office, Python, C, Matlab, R
- **Interests**: Robotics, Piano (10 years), Diving (PADI advanced open water diver), Experiencing cultures