CURRICULUM VITAE

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DENIEL TICHOMIROV

💼 RELEVANT WORK EXPERIENCE

Since 09/2020

PhD Candidate in Research and Development PLE Powertrain OM654M & Diesel Serie
Mercedes-Benz AG, Sindelfingen
- Designing and implementing end-to-end solutions for numerical and categorical data from scoping requirements to launching data products
- Deploying a Data Science platform with 24 web applications for engine development and series car care purposes on the eXtollo cloud
- Leading an IT service provider and 6 students to deliver mature tools on the Data Science platform to users in the engine development based on software development life cycle approaches including coding standards, code reviews, build processes, testing, and operations
- Supervising bachelor and master theses with an 80% rate of 1.0 gradings

04/2018 – 03/2020

Junior Consultant in Research and Development Powertrain Rear Diesel
Daimler AG, Sindelfingen
- Finding the root-cause of anomalous bucking events in a valve clamp task force for 6-cylinder Diesel vehicles based on endurance run testing data
- Managed to upscale bucking event detection from 1 vehicle in 30 hours to 5 vehicles in 30 minutes analysis
- Implementation of an agile working approach based on weekly-sprints in the Big Data and IT service provider team
- Proof of concept for the detection of anomalous longitudinal acceleration events on test data

11/2016 – 03/2018

Working Student in Quality Management Active Implants/ Magnetic Resonance Imaging
Biotronik SE & Co.KG, Berlin
- Development of a test signal with an oscilloscope to trigger implantable cardioverter defibrillators with an electrical impulse
- Planning and construction of a measurement setup for electrodes in magnetic fields on predefined conditions
- Evaluation the measurements with a path recognition program

09/2014 – 08/2016

Dual Student in Quality Management Validation/ Development Electronic Implants
Biotronik SE & Co.KG, Berlin
- Development of an electronic measurement method as a first prototype for imaging methods in surgery to determine the insertion depth of catheters
- Software based verification of the functionality of multipurpose direct memory access unit in pacemaker controller chips
- Design and commissioning of a USB level shifter test board for intracardiac pacemaker controller chips
- Soldering and testing of hardware components on printed circuit boards for intracardiac pacemakers and defibrillators

CURRICULUM VITAE

🎓 EDUCATION

Since 09/2020 | **University, PhD Candidate**
Business and Management, Universita degli Studi di Torino
- Development of an upscaled offline anomaly detection algorithm on time series data from an endurance run testing for longitudinal acceleration events embedded in a MLOps workflow
- Scientific research in the context of anomaly detection in time series data and the embedding of an automated workflow for machine learning purposes called MLOps
- Research on a taxonomical approach for the systemic classification of anomalies in time series data of an endurance run testing

04/2018 – 03/2020 | **College, Master of Business Engineering**
Business Engineering, School of Management and Technology Berlin
- Semester abroad: Jönköping University, Sweden, Indiana University, USA and Tokyo University of Agriculture and Technology, Japan
- Thesis: Development of a Deep Learning algorithm for anomaly detection in hesitation events in the Powertrain Rear Diesel business unit
- Final grade: 1,9

10/2016 – 03/2018 | **University, Master of Science**
Computer Engineering, Technical University of Berlin
- Focus: microcomputer technology, automotive engineering, sensor systems
- 1st to 2nd semester, without certificate

04/2013 – 09/2016 | **Technical College, Bachelor of Engineering**
Elektrical Engineering (dual), Beuth University of Applied Sciences Berlin
- Focus: electronic systems
- Thesis: Development of an electronic measurement method for determining the length of the insertion depth of catheters and its construction as a prototype with transfer of measurement values to a microcontroller system
- Final grade: 2,5

10/2011 – 03/2013 | **University, Bachelor of Science**
Electrical Engineering, Technical University of Berlin
- Focus: basic studies
- 1st to 3rd semester, without certificate

08/2003 – 07/2011 | **School, general university entrance qualification**
A-level, Freiherr-vom-Stein Gymnasium Berlin
- Transfer from 7th to 9th grade through a fast-track program
- Final grade: 3,2

⌨ EXPERTISE

Time Series Analysis
Big Data Analytics
Python | PySpark
Teamwork
Leadership
Moderator

💬 LANGUAGES

German:	*Native (C2)*
English:	*Fluent (C1)*
Russian/Ukrainian:	*Native (C2)*