Michal Svoboda

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PROFESSIONAL SUMMARY

Electrical engineer with passion for programming, data science and machine learning. 7 years of experience as a process engineer in electronic, automotive and semiconductor industry. Free-time student of computer science at the University of Illinois. Broad skillset in manufacturing technologies, project management and IT.

EXPERIENCE

PROCESS ENGINEER

ETO Sensoric in Nuremberg

11/2017 - Present

- Improved cycle times and reduced scrap of wire bonders and dispensers by optimising the process parameters.
- Proposed and conducted experiments to verify changes and new product designs.
- · Worked with internal and external partners on the specifications for new machines.
- · Used SQL, Python, VBA and JavaScript to extract and evaluate data from production and test equipment.
- · Conducted trainings for operators, wrote work instructions.

PROCESS ENGINEER

ABB Semiconductors in Prague

01/2015 - 10/2017

- · Lead a project ending up with a new production line for electronic packaging.
- Worked towards the implementation of a new manufacturing execution system.
- · Specified new production equipment (wire bonders, soldering oven, dispensing robots, marking laser).
- Shaped a new product by choosing and testing materials and increasing manufacturability.
- Improved material traceability by programming applications for data acquisition using R, VBA and Python.

TECHNOLOGIST Prakab in Prague 01/2014 – 12/2014

- · Reviewed the technical specifications of customers for products, assessing in-house manufacturability.
- Optimised workplaces using Lean Six Sigma methodology.
- Standardised the machine parameters and production documentation using programming databases.

RESEARCH INTERN

A*STAR in Singapore

06/2013 - 09/2013

- Estimated the potential of reducing indirect emissions of electric vehicles by optimising charging scenarios.
- · Visualised GPS data from mobility survey, identified patterns, conducted statistical modelling.

EDUCATION

MSc. COMPUTER SCIENCE

University of Illinois in Urbana-Champaign

01/2021 - Present

· Online degree, pursued in free time, computer graphics, data science.

MSc. ELECTRICAL ENGINEERING

Czech Technical University in Prague

09/2011 - 06/2013

- Power engineering, power electronics, electronic industry; graduated with honours (GPA 1.3).
- · Erasmus scholarship for 2 semesters at the Graz University of Technology.

BSc. ELECTRICAL ENGINEERING

Czech Technical University in Prague

09/2011 - 06/2013

• Electrical engineering, programming, physics, mathematics; graduated with honours (GPA 1.5).

SKILLS & TOOLS

Languages Industry Engineering Czech - native FMEA Autodesk Fusion

German - working proficiency Six sigma yellow belt AutoCad English - working proficiency Wire bonding 3D printing Slovak - working proficiency Minitab Encapsulation

Semiconductor technology Power semiconductors Spanish - beginner

> IATF 16969 Data visualisation

Programming ISO 26262 Probability and statistics Python SAP Electrical power engineering R Electrical measurements

> Web technologies lοT

VBA

Matlab Electrical sensors HTML C++ JavaScript

SQL CSS Soft skills

Tensorflow PHP Project management Java MySQL Intercultural skills OpenCV MongoDB Innovative spirit