



CURRICULUM VITAE

Balázs Somogyi

Freelance Design Engineer (M.Sc.)

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Budapest, Hungary

PROFESSIONAL EXPERIENCE

**09/2022 –
current**

Freelance Design Engineer / Development Engineer

Budapest, Hungary

Responsibilities (excerpt):

Various development and design tasks

**02/2019 –
08/2022**

Design Engineer / Development Engineer, Wieland-Lufttechnik GmbH & Co KG

Mechanical engineering company producing industrial extractors – Erlangen, Germany

Responsibilities (excerpt):

Design of machines & steel structures; new designs, developments and extensions, by using CAD, FEM, ERP tools

Projects (excerpt):

Analysis and calculation of vacuum tanks according to ATEX,

Design, development, detailing and drawing of a truck-mounted extractor family (2100-10000 m³/h) machine

**04/2017 –
11/2018**

Design Engineer/ Development Engineer, Ertl-Automation GmbH & Co. KG

Mechanical engineering company, automotive supplier – Straubing-Sand, Germany

Responsibilities (excerpt):

Design of machines & facilities, development of product lines with CAD, FEM, ERP tools for automotive customers, Planning and organizing tasks for subordinates, deadline and budget responsibility

Projects (excerpt):

Laser surface marking machine family: concept search, development and design,

Automation: concept search, development and construction of conveyor lifts, grippers and transfer cars

**05/2010 –
03/2017**

Design Engineer/ Process Engineer / Security Printing Specialist, Mühlbauer Group

Mechanical engineering company – Roding, Germany

Responsibilities (excerpt):

Design of machines, components & production equipment for security card production, also safety technical documents and full planning of production, prints

Projects (excerpt):

Laminating machine inspection, development, compliance with market regulations and further development,

Passport checking tool for measuring two different tolerances, with a particularly aesthetic appearance

**07/2009 –
02/2010**

Security Printing Specialist / R+D, Jura Trade Kft.

Company producing security printing software and machines – Budapest, Hungary

Responsibilities (excerpt):

Design of security prints, graphic design, research/engineering development activities, project management, furniture design

**02/2009 –
06/2009**

Diploma thesis: Design, Vogel-Sitze Hungária Kft.

Mechanical engineering company, automotive supplier – Mór, Hungary

Theme of the thesis:

Design and development of a public transport vehicle seat using CAD, FEM, 3D & DTP tools

- 02/2007 – 01/2009** **Internship**, Jura Trade Kft.
Company producing security printing software and machines – Budapest, Hungary
Responsibilities:
Basics of security printing design & technology, training of the security printing design software, design guidelines
- 05/2005 – 01/2007** **2D-3D Designer**, Progressive Networks
Advertising agency – Budapest, Hungary
Responsibilities:
3D/CAD modeling, visual design, product design, websites, graphic design
- 1999 – 2005** **Freelance Designer**
Budapest, Hungary
Responsibilities:
Visualization, product design, 3D/CAD modeling, web design, visual design, graphic design

STUDIES

- 2009** **Industrial Design Engineering M.Sc.**
Budapest, Hungary
Studies:
Certified Industrial Design Engineer M.Sc.
Faculty of Mechanical Engineering, Budapest University of Technology (BME)
Global exams:
Mathematics, Mechanics, Mechanical and Structural Elements
State exam:
CAD, Ergonomics, Management, Design Theory
Diploma thesis:
Designing the passenger seat of an urban and suburban public transport vehicle

PROFESSIONAL TRAININGS

- 2022** **A-Plan ERP course**, Wieland-Lufttechnik GmbH & Co. KG, Erlangen, Germany
A-Plan basics and its use
- 2012-2018** **SolidWorks - various courses** in Germany and Hungary
Tips & tricks, PDM, simulation, welded structures, PDM, SAP, Cideon Workspace, modelling, assemblies, drawings, SAP-PLM integration, injection molding
- 2017** **Java course**, Masterfield, Budapest
Java application development
- 2016** **Solid Edge basics course**, NCT Akadémia, Budapest, Hungary
Solid Edge ST8, modelling, assemblies, drawings
- 2014** **SAP-PLM in-house training**, Mühlbauer Group, Roding, Germany
SAP-PLM basics and practical training
- 2013** **Ansys CFD basics course**, CFD.hu Kft., Budapest, Hungary
Flow modeling, Ansys Design Modeler, Mesher, Fluent, Multiphysics, BladeModeler
- 2004** **3dsMax mastercourse**, Mesharray Digital Media School, Budapest, Hungary
3dsMax 5, modelling, lighting, animation, texturing

PROFESSIONAL SKILLS

Engineering Skills: analyse, designing, validation
Design: conception, development, 3D construction, detailing, drawing, ERP skills
Areas: machine design, constructions, product design, visualisation, consultation, facility planning

SOFTWARE & IT

CAD Systems: SolidWorks, Solid Edge, 2D-CAD
FEM/CFD: SW Simulation, SimulationXPress, Ansys/Comsol
PLM: SAP R3 PLM (user skills)
3D/Surfaces: 3dsMax + vRay Renderer, Rhino 3D, Plasticity
Security Printing: Jura Glenisys Security Suite
Programming: Java (with IntelliJ as IDE)
IT: Windows (user skills), Microsoft Office

LANGUAGE SKILLS

Hungarian: mother tongue
English: professional working proficiency
German: professional working proficiency
French: elementary proficiency
Russian: elementary proficiency

SOFT SKILLS

creativity, inventive spirit, positive attitude, team player, friendliness

HOBBIES

I spend as much time as possible with my family. I am writing programs, spending time with electronic projects (Raspberry, ESP32, ...). I enjoy reconstructing the MÁV 601 series steam locomotive in 3D to perfection.