Arpad Herbut | Mechanical Engineer

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Professional profile

Deadline-driven Mechanical Engineer with experience in design development, manufacturing and design. Specialized in fluid, thermal and applied mechanical analysis. Well-versed in coordinating and managing analysis and design projects.

Technical skills

- ➢ **Mechanical engineering**
- ➢ **Product Design**
- ➢ **Computational Fluid Dynamics**
- ➢ **Structural analysis**
- ➢ **Automotive**
- ➢ **Aircraft part design**
- ➢ **Manufacturing**
- ➢ **Thermal Analysis**
- ➢ **3D Modeling**

Career summary

Mechanical Design Engineer, Jan 2021 – present (22 months)
JOBY Aviation, San Carlos, CA
Mechanical design of aircraft parts as a member of the Environmental Control Systems team.

Analysis Engineer, Feb 2017 – May 2019 (23 moths)
Lupfe Lp., Budapest, Hungary
Conducted analysis studies of an experimental internal combustion engine, developed to be used in industrial hybrid powertrain quadcopter drones as a generator set. (https://www.lupfe.com/technology/)

Design Engineer, Nov 2015 – Oct 2016 (12 months)
Lumoconcept, Budapest, Hungary
Product design, create engineering drawings of custom lamp parts and assemblies, plan and organize production schedules and supervise the assembly of my design. (http://www.lumoconcept.com/)

CAM Programmer/Design Engineer, Oct 2011 – Dec 2016 (50 months)
NaVégre Műszaki és Szolgáltató LP, Hungary (Part time)
Modelled 3D parts based on drawings, built machining plans for 2.5D milling, and wired electrical discharge machines (Esprit, CREO). Built and maintained the network between the CAM workstation and the manufacturing machine controls. (SIEMENS)

Analysis Engineer Intern Feb 2015 – Oct 2015 (9 months)
AVL AUTÓKUT Mérnöki Ltd., Budapest, Hungary
Aided in the development of internal combustion engine cooling systems as a member of the thermal analysis team.

Analysis Engineer Intern, Mar 2014 – Jan 2015 (11 months)
AUDI HUNGARIA MOTOR Ltd., Gyor, Hungary
Explored and researched possible applications of the ABAQUS CFD software for the internal combustion engine development department (ABAQUS CFD, ABAQUS Standard, Ansys CFX, OpenFOAM, & Python).

Education and qualifications

Recommended U.S. Equivalency:
Bachelor of Science in Mechanical Engineering and Master of Science in Mechanical Engineering from a regionally-accredited institution of higher education.

Education is accredited by Spantran (foreign degree evaluation service)

"ENGINEERING SCIENCE AND DESIGN (MINIMUM HOURS REQUIRED IN ENGINEERING = 48; HOURS MET = 117.5)"

Budapest University of Technology and Economics - Budapest, Hungary
➢ Master of Mechanical Engineering, MSC – 2018 - Department of Fluid Mechanics
  o Master Thesis based on analyzing losses of a gear pump (Ansys CFX)
➢ Mechanical Engineering, BSC – 2011 – Department of Applied Mechanics
  o Bachelor Thesis based on analysis of a back pressure valve (Ansys Fluent)

Other experiences/skills

➢ **Software –** ANSYS Workbench, Fluent, CFX, ICEM, Abaqus, AutoCAD, Pro/ENGINEER, Solidworks, Solid Edge, Creo Parametric, AVL Fire, ANSA, OpenFOAM, Python, Catia V5, Inventor, Catia 3DExperience, Enovia
➢ **Courses –** Esprit basic and wire EDM module; Esprit miller module; Pro/ENGINEER 5.0 basic course; Creo 2.0 Advanced drawing course
➢ **Community works –** Theodore von Kármán Dormitory (KTK) Sound and Video Studio; KTK College of Computer Studies; KTK Media group
➢ **Languages –** English (advanced); Hungarian (native); German (learned in high school); Serbian (basic)