Curriculum vitae

Personal Details

Name:	Faraj Khalikov
E-mail:	faraj.khalikov@gmail.com
Mobile:	+994 55 202 53 97
Date of birth:	2. September 1988
LinkedIn:	https://www.linkedin.com/in/farajkhalikov/

Technical Skills

CAD:	SolidWorks, Catia v5, Salome
CFD/FEM/Thermal:	OpenFOAM, ANSYS (CFX, FLUENT, FEM), Star CCM++, SolidWorks
Languages:	C#, C++, Python, FORTRAN, Matlab
Others:	MS Office, Ubuntu, MS SQL Server

Work Experience

5.2016 - Present

Azerbaijan National Academy of Science
Baku

Position: Senior Project Engineer (Thermal / CFD / FEM / Theory)

Managed & executed Thermal / CFD / FEM projects from start to end.

Responsibilities:
- Product research & development to conceptual design stage.
- CFD analysis and experimental data for aircraft performance optimization.
    - Wing design for fuel efficiency, stability and wind resistance.
    - Fuselage modifications for fuel efficiency and engine noise reduction.
- FEM analysis for cost reduction, weight reduction and durability.
    - Vehicle (UAV, Drone, Tank etc.) weight reduction to safety factor of 1.2.
    - Finding critical parts needing reinforcement for durability of system.
- Thermal analysis and experimental data for cooling and insulation.
    - Engine compartment design for efficient engine/servo cooling.
    - Electronics & batteries compartment insulation design.
- C++ Programming for user defined functions.
- Maintain professional and technical knowledge by reviewing professional publications, gathering deep theoretical knowledge and establishing personal networks.

4.2014 – Present

www.freelancer.com

Projects:
- CFD / Thermal analysis / Multiphase analysis / FSI analysis / Coding
    - Trans-sonic wing external aerodynamics on ANSYS FLUENT.
    - Simulation and optimization of hydraulic systems on OpenFOAM.
    - Delta Wing meshing on ICEM and simulation on ANSYS FLUENT.
    - Conjugate heat transfer for insulator design.
    - Pore scale CFD and validation of water displacing crude oil in reservoir.
    - CFD of boundary layer effects on forces acting upon marine pipeline.
    - Heat Exchanger Design for Veliyev MMC.
    - Plant hydraulic system optimization for Veliyev MMC.
    - MATLAB coding NS equations solver for Solar Power Chimney Plant.

CURRICULUM VITAE

2.2015 –5.2016	**AZERTEXNOLAYN MMC** Baku
Position:	Senior Project Engineer (Thermal / CFD / FEM / CAD)
Responsibilities:	• Designed and developed testing for the R&D phase, Product Development Phase and Design Verification Phase for Gate, Butterfly and Air Valves, Manhole Covers and Hydrants. • Maintained professional and technical knowledge by reviewing professional publications, gathering international standards for Valve design and establishing personal networks. • Flow coefficients and pressure loss coefficients derivation via CFD for catalogue design of Valve products. • Design of Vales CAD via SOLIDWORKS and Catalogues via SOLIDWORKS bills of materials tool.
10.2013 – 04.2014	**Issendorff Thermoprozesstechnik e.K.** Baiersdorf
Position:	Project Engineer (Thermal / CFD)
Responsibilities:	• Calculation, simulation, and optimization of systems and components for thermal process engineering systems. • Developing solvers for „OpenFOAM" with Object-oriented C++ Programming. • Optimization of Gas-air mixers in terms of geometry and production costs. • Solving client-oriented projects.
9.2012 – 10.2013	**FLUIDON GmbH** Aachen
Position:	Part-time job & master thesis
Responsibilities:	• Results validation and verification and Post-processing. • CFD analysis of Hydraulic Systems .
7.2010 – 6.2011 Position:	**Pars Makina ltd**. (voluntary work) CFD-Engineer.

Qualifications

9.2011 – 7.2013	**M.Sc. Aerospace Engineering,** Thesis grade **1.3** Aachen University of Applied Sciences (FH), Aachen, Germany.
9.2006 – 6.2011	**B.Sc. Aerospace Engineering** Middle East Technical University, Ankara, Turkey.
1.2011 – 6.2011	Air Force Academy Future Flight Design (FFD) competition. Turkey.
9.2010 – 4.2011	AIAA Student Design Build Fly (DBF) competition. USA.

LANGUAGE SKILLS

Russian:	**Native**
English:	**Fluent (Both IELTS GENERAL and ACADEMIC 7.0)**
German:	**Good (B2)**
Turkish:	**Fluent**
Azerbaijani:	**Native**