Elvin Ibrahimli

Research Scientist

April 6, 1993

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Azerbaijani

Languages

- French ● ● ○ ○ ○
- English ● ● ● ● ●
- Russian ● ● ● ● ●

Hard Skills

- Research skills
- Time management
- Writing reports and theses
- Computer skills 1
  - Matlab
  - Fortran 90
  - Linux
  - Windows
  - Latex
  - Microsoft office
- Computer skills 2
  - Ansys Fluent
  - Openfoam
  - Abaqus
  - LS-Dyna
  - Code Aster
  - Numeca
  - CFD-GEOM,ACE
  - Frefeem++
  - Gerris
  - BioWin

Working Experience

2018 – 2019

RESEARCH ENGINEER

University of Strasbourg, ICUBE - FRANCE

Internship title: "Implementation of IBM on two-phase solver".
Brief description: The interest on 'Immersed Boundary Method' (IBM) increases in Computational Fluid Dynamics (CFD) because it simplifies the mesh generation problem for solving the Navier-Stokes equations. IBM method has been implemented by means of Fortran 90 on two-phase solver.

2016 – 2018

RESEARCH ENGINEER

Azerbaijan State Oil and Industry University

Project title: "Synthesis of Smart Materials".
Brief description: Computational synthesis of smart materials based on fuzzy clustering of big data between material composition and properties, furthermore if then rules models were built in Matlab software to guide smart material synthesis.

2014 – 2015

MECHANICAL ENGINEER

Hydroserv Caspian LTD Company

Brief description: Inspection of industrial hoses, pumps and pipes. Fabrication and manufacture of industrial hoses, according to standards BSP, JIC and so on .

2013 – 2014

MECHANICAL ENGINEER

State Oil Company of Azerbaijan Republic - SOCAR

Brief description: Construction and repair machine parts of electrical motors, cranes, domestic pumps, reducers and etc.

Education

2018 – 2019

Master of Applied Sciences and Mechanical Engineering

University of Strasbourg, FRANCE

Specialty: Computational Engineering.

Master Thesis:"Implementation of IBM on two-phase solver".

Department: Faculty of physics

2016 – 2018

Master of Oil-Mechanical Engineering

Azerbaijan State Oil and Industry University

Specialty: Oil refining and chemical production machinery.

Master Thesis:"Enhancement of reliability of heat exchangers"

Department: Faculty of Oil-mechanics

2011 – 2015

Bachelor of Oil-Mechanical Engineering

Azerbaijan State Oil Academy

Specialty: Engineering of technological machines and equipment.

Bachelor Work:"Development of well pumps with separate operation"

Department: Faculty of Oil-mechanics

CFD SKILLS

- Solve numerically any problems in the fields of fluids mechanics, solid mechanics, heat and mass transfer, biomechanics and civil engineering.
- Use simulation tools (commercial solvers, research codes or free software) in industry (Computational fluid dynamics, computational solid mechanics, computational biomechanics, computational chemical engineering, civil engineering).