

Good day ,

I am looking position for Stress&Thermal&EMag engineer (33 years of Stress/thermal simulations ,PhD)

I perform stress/thermal/Emag simulations :

- *stress & thermal simulations, including hyperelastic materials (rubber), polymers, composites*
**** have experience in numerical modeling of stamping/metallforming processes*
- *multibody dynamics*
- *rotor dynamics*
- *thermal simulations*
- *electromagnetic problems (low frequency range)*
- *electrostatic simulations*
- *piezoelectric and thermoelectric effects*

<https://www.linkedin.com/in/valeri-anpilovv-128988163/>

*My son is looking position for CFD/thermal engineer
(31 years old, 10 years of CFD/thermal simulations ,PhD)*

<https://www.linkedin.com/in/sergey-anpilov-20131485/>

Regards Valery Anpilov
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Curriculum Vitae

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Anpilov Valery Nikolaevich

Date of birth:	01 May 1962
Nationality:	Russian
Education:	<ul style="list-style-type: none"> • 1992-1995 – PhD , Leningradsky state university. (Numerical simulation of propagation phenomena of strong shock waves in heterogeneous elastic-plastic media) • 1981-1986 – Leningradsky state university. Department: Applied mathematics • 1981-1986 – Engineering academy. Specialization: Stress simulations. Probation and stress simulation of underground constructions for the effects of waves from explosions of conventional and nuclear munitions. • 1978-1981 – Engineering college. Specialization: Stress simulations. Diploma with honours.
Working experience:	<p>From January 2019 – present: Krets Consulting (Orebro, Sweden) (https://krets.nu/hem/)</p> <p>Stress&thermal&EMag engineer-consultant</p> <p>Stress & thermal & Emag simulations</p> <p>2008 – present :Engineering company «CAE-Services» http://cae-services.net/ Chief of stress department</p> <p>Stress/thermal simulations:</p> <ul style="list-style-type: none"> • Stress/thermal simulations of the overall stress-strain state of piping systems made from both metal and non-metal (including composites) materials, for given values of temperature, pressure, weight of the internal environment, self-weight of the structure, taking into account the kinematic conditions, as well as the friction in the bearings. Material of pipes, vessels and tanks: <ul style="list-style-type: none"> - steel - plastic/polimer - rubber - composites. • Seismic resistance of tanks and pressure vessels, including partially filled with liquid. – coupled Eulerian-Lagrangian (CEL) analysis was used for fluid-structure interaction. • Stress simulation taking into account the hyperelastic properties of gaskets from rubbers and polymers. • Stress simulations with composites (small experience). • Numerical simulation of stamping processes.

- Stress simulations of lift's constructions under "operational" and "emergency" loads, in particular:
 - emergency lift stops;
 - lift containing passengers falling onto shock absorbers.
- Stress simulations of the container in which the electronic units and diesel generators of backup electricity are located to the effect of static and dynamic (seismic) loads.
- Stress simulations of the parts / assemblies of various metalworking machines.
- Stress simulations of a metal-ceramic tube (heat exchanger element of a nuclear reactor) for various internal pressure and temperature.
- Stress simulations (static and dynamics) for electronic, electrical and optical devices under structural and thermal loads.
- Multibody Dynamics Modeling (COMSOL - from 2017)
- Rotor Dynamics Modeling (COMSOL - from 2018)
- Analysis of Thermoelectric Phenomena with COMSOL (from 2017)
- Piezoelectric Simulations with COMSOL (from 2017)

1995 – 2008 –office of German company CAD-FEM GmbH in Russia

www.cadfem.de (Technical Director – Chief stress department)

Stress/thermal simulations for electronic industry:

- Stress simulations (static and dynamics) for electronic, electrical and optical devices under structural and thermal loads.
- Determination of the stresses in microcircuits from thermal loads.
- Numerical modeling of technological operations in the manufacture of metal parts (stamping) - to use deformed geometry and calculation results (residual stresses , residual deformations, viscous fracture) in further stress simulations.
- Stress simulation in order to obtain data on the strength of the soldering of electronic parts on the boards.
- Stress simulations of the electrical connectors for determining the degree of their reliability, as well as the contact areas at different temperatures.
- Linear dynamics, frequency and spectral simulations.
- Determination of the optimal damping system (vibration isolation, shock absorber) for individual electronic components, boards and electronic devices.
- Stress simulations with respect to hyperelastic (hyperelastic, hyperfoam) properties of gaskets and shock absorbers made of rubbers and polymers.
- Stress simulations of plastics (polymers) parts – with respect to viscoelasticity and viscoplasticity.
- small experience with stress simulations of reinforced polymeric composites.

1986–1995 Research Institute

Stress engineer

- Coupled stress / thermal simulations - propagation of explosion shock waves in elastoplastic media (soild) and interaction of shock waves with above-ground and underground structures, pipelines, tanks.

	<ul style="list-style-type: none"> • Determination of parameters of motion underground constructions exposed to explosion shock waves. • Stress simulations of steel and/or concrete building constructions. • Stress simulations of shock absorbing systems for building constructions containing equipment and personnel.
Professional skills:	
Software:	<ul style="list-style-type: none"> • COMSOL (2017-present) • ABAQUS/Standard, ABAQUS/Explicit, ABAQUS/Implicit , ABAQUS/CAE (2007-present) • ANSYS (Structural, Thermal, Workbench, Fatigue, DesignExplorer) (1986-2007) • ANSA (2015-present) • HyperMesh (2016-present) • MCalibration (2016-present) • AutoCAD (1997-present) • SolidWorks (2001-present) • MathCad
Specialization:	<p>Stress & thermal & EMag simulations.</p> <p>Equations states (material models) that I used performing stress / thermal simulations:</p> <ul style="list-style-type: none"> • Linear elasticity • Porous elasticity • Linear Viscoelasticity • Creep • Hypoelasticity • Hyperelasticity (including Mullins effect, Hysteresis , • Hyperfoam (Hyperelasticity in elastometric foams) • Linear viscoelasticity • Nonlinear Viscoelasticity • Permanent set in rubberlike materials • Metal plasticity • Classical metal plasticity • Models for metals subjected to cyclic loading • Annealing or melting • Johnson-Cook plasticity • Dynamic failure models • Porous metal plasticity • Cast iron plasticity • Deformation plasticity • Damage and failure for ductile metals • Damage (initiation and for evolution) and failure ductile materials in low-cycle fatigue analysis • Extended Drucker-Prager models • Modified Drucker-Prager/Cap model • Mohr-Coulomb plasticity • Critical state (clay) plasticity model • Crushable foam plasticity models • Concrete • Concrete smeared cracking • Cracking model for concrete • Concrete damaged plasticity • Damage and failure for fiber-reinforced composites

Foreign languages:	English (reading technical documentation, speaking proficiency - intermediate)
Marital status:	Married. Son – 33 years old – PhD, Lomonosov's Moscow State University, Computational mathematics and cybernetics department.
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Curriculum Vitae



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AGE	28 years old
NATIONALITY	Russian
EDUCATION	<ul style="list-style-type: none"> 2008 – graduated from Lomonosov's Moscow State University www.msu.ru/en/ Computational Methods Department, with «applied mathematics and cybernetics» diploma. 2008 – entered a post-graduate studies program at Lomonosov Moscow State University. Dissertation work is related to modeling of reduction cell – magneto-hydrodynamic stability, single – and multiphase approach (Navier-Stokes and Maxwell systems of equations coupling). 2011 – finished post-graduate studies with Ph.D degree.
PROFESSIONAL SKILLS:	
COMPUTERS:	
Software:	AutoCAD Inventor, PRO/Engineer (Creo), SolidWorks, Altair HyperWorks Desktop; Star-CCM+, ANSYS/CFX, ANSYS/Fluent, IcePak, COMSOL; Microsoft Visual Studio, Embarcadero RAD Studio (Borland Delphi); Delphi, C, C++, Fortran, Oberon, Modula;
Programming:	
WORKING EXPERIENCE:	<ul style="list-style-type: none"> From Aug. 2008 to present time - engineer at CAE-Services LLC (http://cae-services.ru/); From Nov. 2011 to present time - Senior Researcher at All Russian Thermal Engineering Institute (http://vti.ru/en/); From Dec. 2011 to present time - junior research associate at Lomonosov's Moscow State University – Department of Computational Mathematics and Cybernetics (http://www.msu.ru/en/); From Aug. 2012 to Oct. 2012 – CFD-engineer at “Oil And Gas Engineering Company - All-Union Research Institute for Construction and Operation of Pipelines, Enterprises of Fuel and Energy Sector. “ (http://en.vniist.ru/corp/129.htm); Computer modeling of fluid flows with related physical phenomena: free surface, coupled heat and mass transfer, condensation (on solid surface and/or liquid jet streams);
FOREIGN LANGUAGES:	English (fluent), French (basic), German(basic), Irish (basic)
MARITAL STATUS:	Single
INTERESTS & HOBBY:	Ninjutsu, hydroponic flowers cultivation, history, mythology, celtic languages, tea ceremony