

Customer	Avieneme Die Dievelige http://www.evieneme.com/bg/heme.html
Contact	Avionams Pic., Piovaly, http://www.avionams.com/bg/nome.ntmi
Contact	Jordan Novakov, office.pld@avionams.com
Task	Precise digital mock-up of MIL MI-8 helicopter for structural simulation for planning
	Principle to simulate the structurel foress and dependency even the entire set of
Booulto	Being able to simulate the structural forces and dependency over the entire set of
Results	assembled parts, the repair organization is able to spare both material and enorthin
	performing emergency repairs are consister and crash events
The precise digita	al model has been created based both on manufacturers sketches and precise laser 3D scanning data
Rest, Face, (F), (-1) Rest, Face, (F), (-1) Rest, Face, (F), (-1) Rest, R	
5.03 1.022 (M-R)	
Using advanced	FEM/FEA tools form SIEMENS Industry Software, SpaceCAD is able to perform full
set of struc	ctural simulations for precise planning of emergency repairs on Mi8 helicopter



Customer	Thales Rail Signaling Solutions, http://www.thalesgroup.com/
Contact	Victor Todorov, viktor.todorov@thalesgroup.com
Task	Design and construction documentation for a series of traffic-light structures with complete drawing documentation.
Results	Ergonomic construction that meets the standards of repairability and easy maintenance. Optimized price-performance ratio while maintaining current standards.
	Image: Comparison of the second of the se
	ально транали и проведение и По проведение и проведение
	nspection for suitability, installation drawing documentation
	Thales Pail Signaling Solutions, losef Biro, i biro@thalesgroup.com
Task	Design of lightweight signal structure with optimum safety factor under limit loads.
Results	Optimally secured design under limit loads - storm surge and airflow when passing a train.
SvetpforWithFund5-1_asm_var01_si Subcase - Static Loads 1, Static Stej Stress - Element-Nodal, Averaged, V Beam Section : Recovery Point C Min : 0.00, Max : 92.99, Units = N/mi Beam Coord sys : Local Deformation : Displacement - Nodal 40.00 36.67 33.33 30.00 26.67 23.33 20.00 16.67 13.33 10.00 6.67 3.33 0.00 6.67 3.33 0.00	m1 : Solution Instants p 1 /orn-Mises m2(MPa) Magnitude Magni







Customer	Eldom Inv	vest PLC. http://www.eldominve	st.com/
Contact	Vesselin B	onev, ves corp@yahoo.com	
Task	Functional (coil)	thermo-fluid optimization of a w	ater heater with a heat exchanger
Results	The results coil and the	s of the analysis give information e location of its vertical position	n about optimizing the length of the in the water tank.
0.5 tar. 1 page 4.4 - Cathe 1 2.50 - 1 5 4.55 - 4.55 - 4.55 - 4.55 - 4.55 - 4.55 - 5.55 - 5.5			P) Delt Sysse 9399 71 5842 71 585 44 505 44 505 500 500 500 500 500 500 500 500 500
Heat exchange - v distribution	olume	Heat exchange - heat transfer rate	Temperature distribution

Customer	VMZ PIc, http://vmz.bg/en/
Contact	Ivan Getsov, office@vmz.bg
Task	Simulation and optimization of a hand grenade launcher
Results	Lowering the weight and keeping the structural strength of the unit has been achieved through FEM/FEA simulation, analysis and design optimization
Pod Bridge Ministry Defen	10.00 Sentember











Customer	ABB Avanguard, http://www.abb.bg/
Contact	Miroslav Petkov, miroslav.petkov@bg.abb.com
Task	Kinematic simulation for safety verification
Results	Changes in the kinematic motion scheme to add backflow to break the icy crust.
	Improved reliability and safety with the remote control of the switch.
	Assembled kinematic model of horizontal high-voltage disconnector
	ever service the service the service test of t
<u> </u>	Areas with maximum load and kinematic optimization





Customer	Preskov PLC, http://preskov.com/
Contact	Nadejda Dimova, nadejda_dimova@yahoo.com
Task	Simulation and analysis of forging process
	Geometric optimization of the shape of the base workpiece. Determination of real
Results	technological parameters in the process of deformation, analysis of structural
	changes
Band Andread State	Image: state in the state
	Deformation lines and temperature distribution during deformation







Customer	HES PLC, http://www.hes-co.com/	
Contact	George Tartarov, project@hes-co.com	
Task	Reversible engineering in 3D design of a hydraulic motor under licensed drawing documentation	
Results	Design, simulation and kinematic analysis of a computer 3D prototype, based on the provided 2D drawings. Optimal design for correct drawing and technological documentation	
	view view view view view view view view	
	Assembled model of hydraulic motor and body part	
Re	eversing engineering - from drawings and sketches to assembled product	



Customer	VRZ Karlovo, PLC, http://www.vrz-karlovo.com/	
Contact	Nikola Vassilev, vasilev@vrz-karlovo.com	
Task	Reverse engineering for 3D railway wagon design based on licensed drawing documentation from combined sources for constituent components	
Results	Fast construction and accurate documentation for the production of a new line of wagons with a length of 22 meters. Generation of precision for detailed welding plans and control of basic dimension ratios	
	3D model frame and bogie	
Part Name: 45908311 Material Name: Estimation Type of Analysis: Stre Displayed: Deformed 1 Date: 19 (Our 2008 r.		
	Static analysis for carrier frame optimization	







	Design image of the model
Customer	Hilman Co, http://www.stokibg.com/
Contact	Tania Kostadinova, tkostadinova@gmail.com
Task	Stylish design of a suitcase according to customer specifications
Results	3D design and construction documentation of a hunting weapon case, designed with ergonomic outsourced manufacturing
Design image of the case model	

Customer	SpaceCAD Ltd., http://www.spacecad.bg/
Contact	Balyo Dinev, bdinev@david.bg
Task	Stylish design of a home loudspeaker
Results	Prior to be built using 3D printing technology, this loudspeaker has been designed and visualized for checking the optical performance
Design image of the speaker model	



















Customer	Reichle & De-Massari AG , www.rdm.com
Contact	Nadejda Zidarova, nadejda.zidarova@rdm.com
Task	A series of simulations to study the design of a 24 port plastics distribution panel
Results	Eliminating the need to create an expensive prototype design tool at a preliminary design stage. Reducing the cost of the product
400 376 320 220 220 220 220 220 220 220	
Stress, gener	rated in 24 port distribution panel due to load during operation
8.653 8.112 7.571 7.030 6.489 5.949 5.408 4.867 4.326 3.786 3.245 2.704 2.163 1.622 705 1.082 0.541 0.541 0.541 0.541 0.541 0.541 0.541 0.541	
8.653 8.112 7.571 7.030 6.489 5.949 5.408 4.867 4.367	pro in 24 part distribution paged due to load during a serie
1.622 1.082 0.541 0.000 Units = mm 8.653 8.112 7.571 7.030 6.489 5.94	the sin 24 port distribution panel due to load during operation







