Cuprins

Structural integrity design and verification for a system having a heat pump function.
ANCUȚA Andrei-Alexandru..... 1

Analytical and numerical calculus of the elements of a transmission system.
COSTEA Mihai..... 8

The study of a composite material reinforced with flax fibers put to the creep-recovery test with variable shear.
DECA Anca-Loredana, STOCHIOIU Constantin 16

MG's wing spar design.
CHELEMEN Dennis Ştefan..... 23

Numerical and experimental study of an al-pla sandwich beam loaded in bending.
TĂLÎNGĂ Ana-Maria…….....…. 31

Calculus and modelling of a load-bearing structure design for the enlargement of the working space in a production line.
MUREȘAN Ștefan-Claudiu, GIGOI Ştefan- Alexandru..... 39

The structure and operation of military drones.
ALECU Ionela, CHIRATCU Paul, MANEA Cristian..... 46

Self-repairing materials.
LIXANDRA Ana Maria, VLAD Ancuța Mirela..... 51

Humanoid robots - design and performance.
IRIMIA Ana, OINAC Marian Adrian, MANTEA Marian..... 57

Companies strategy for customers satisfaction.
IVAN Elena-Bianca, ARON Georgiana-Elena, GUȚOIU Andreea-Cătălina..... 62

Stress analysis for adhesive bonded single lap joints.
ȘTEFAN Bianca Minodora, CROITORU Alexandru Theonel..... 68

Small-scale energy storage systems.
RĂILEANU Anton, DEMIAN Gabriel……....... 74

The implementation of industrial robots.
FERARU Elena-Andrada, NEGULESCU Andrei, UNGUREANU Liviu..... 79

Accreditation of measurement laboratories.
POPA Ionuț-Raul, GHEORGHIȚĂ Denisa Elena, STRUGARU Raluca Alexandra..... 85

Volunteering in crisis situations. Case study in terms of health and safety at work.
CONSTANTIN Ana Maria, CHIVU Oana..... 91

Design and maintenance process management.
DRAGASTAN Elena-Iulia, GEORGESCU Mihaela and LECU Denis-Marian..... 98

Self-assessment of the performance of a company in the automotive industry based on the EFQM excellence model.
BĂLAN Ștefan..... 102

Modeling and simulation of mechatronic assemblies through Tinkercad virtual application.
CARAIMAN Cosmina-Constantina, BONTĂ Anca-Bianca-Beatrice, DULIBA Mălina-Daniela and CRIȘAN Ramona-Gabriela..... 110

Concepts of electronic signature and online training in the occupational safety and health.
COTICI Olimpia Raluca, BUCURESCU Catalina Mihaela..... 118

Noise exposure for ground operations marshaller in interactions with small aircrafts.
DINU Alexandru, TĂTUC Mircea..... 126

Improving operation and making practical applications on the 3d printer creality ender 3.
ȘERBAN Ion Gabriel..... 134

Offline programming of welding robots.
STRĂJERU Paul-Adrian, UNGUREANU Răzvan-Ionuț, NEAGU Walter-Iustin, RONTESCU Corneliu, Dumitru-Titi CICIC..... 142

Process management evaluation using the EFQM model.
SCUTARU Laura-Maria..... 148

Online programming possibilities for welding robots.
UNGUREANU Razvan-Ionut, STRAJERU Paul-Adrian, NITA Larisa-Gabriela, RONTESCU Corneliu, BOGATU Ana-Maria..... 157

Geometric modeling of parts using Solidworks and Catia applications.
TUDOR Bianca, TECUCEANU Diana Georgiana, POPESCU Marius Andrei 164

Plastic recycling.
BUDULAN Ionuț, CAZANGIU Andrei, FILIPESCU Octavian..... 171

Emmergency situations. Risk of injury by fire or earthquake at work. Case study.
BOBOCEA Giulia, SZABO Loredana Florentina, CHIVU Oana..... 175

Nanomaterials used in the field of medicine.
NEGRICEA Elena Cristiana, ZAMFIRESCU Andrei Octavian..... 182

Theoretical approaches of linear and non-linear active control of railway vehicles. Study of the friction and adhesion of the wheels of railway vehicles with the help of dynamic modeling.
BIBIRE Constantin..... 186