Bachelor Theses UVTE – 2019

Vlk, Erik The application of CAx technology to design and production of supporting board

Horváth, Peter Design of machine for shipping container manipulation

Kovár, Marek Reconfigurable production based on industrial robots based on the Industry 4.0 concept

Sládková, Nicolette Usage Industry 4.0 in forming processes

Kopúnek, Michal Optimization parameters of laser welding for aluminum alloys

Pňaček, Dávid Design of the lever mechanism and the pump - project of the reduced functional model of the well with water pump for wind power

Kadlec, Juraj Design and construction of a three-axis cnc milling machine

Kanta, Mário Design and manufacture of component using additive manufacturing technology

Holba, Karol Design of components of clamping modular system

Benedikovič, Richard Proposal to a more effective production process of a manual assembly workplace

Sálus, Martin Use of CA Systems in the design and manufacturing of hinge support

Ižvolt, Tomáš Construction design of storage table for welding

Spevák, Richard Replacement of the vertical pneumatic actuator behind servo drive in the Schaeffler company s.r.o.

Romančík, Dominik Optimization of the process of tools production for bearings production in Schaeffler Skalica s r.o.

Boor, Martin Shaft design and production

Levický, Marián Design of mold and cores for engine block casting

Nemečkaj, Ľubomír Design of fixture for positioning of component

Cesnek, Boris Analysis of assembly systems

Kováč, Michal Design of a preparation designed to control the surface microgeometry of very small dimensions components

Schuster, Martin 3D Scanning and Reverse Engineering

Marček, Matej Engineering design of the fixture for clamping of the high pressure adapter

Kukan, Peter Design and production of tracked vehicle prototype at Devonic s.r.o.

Rojko, Matej Computer aided design of forming tools

Bínovský, Marek Layout design of the robotic workstation taking into account the current safety requirements for such workplaces

Macánek, Jozef Selection of suitable optical evaluation system for output control of clutch bearing

Kováčik, Daniel Variability of circularity measurement results on coordinate measuring machine

Habšuda, Kevin The geometry measuring of cutting tools

Gunda, Milan Properties of laser welded steel sheets

Ištvanec, Štefan Design of prototype cover for VEIT Hand finisher using additive manufacturing

Havran, Filip Optimalization of tool on tube reduction for damper

Jurkas, Filip The evaluation of the working environment's quality in drop forges

Ďuračka, Denis Modernization of forging lines in drop forges

Kosztolánszka, Erika Wire production effectiveness increasing in company Vincente Torns Slovakia

Dubecký, Juraj Design of a system of inter-operative manipulation in an automatic fattening station in Schaeffler company s.r.o

Beťko, Lukáš Increasing of deposition rate of arc welding methods

Sýkora, Peter Ultrasonic soldering

Šimek, Pavol Development of soldering alloys for higher application temperatures

Žáčik, Ondrej Economical estimate of cast crusher ring production

Tóth, Tomáš Proposal of welding method and welding equipment

Dérik, Jakub Design of method and device for welding of bolts

Szücs, Simona Using the PLM system Agile 2.0 as a support tool for design purposes in the company KUKA Slovakia s.r.o.

Svrbický, Miroslav Unconventional methods of drawing of steel cold wire

Koník, Matúš Proposal of shearing tool for cutting off gating system of thermoplastic part

Detko, Peter Use of computer aided technology in design and manufacturing of automobile wheel disc prototype

Mocák, Peter Numerical simulation of induction heating processes using the ANSYS software

Beládi, Ľudovít Design and production of floorball hockey blade using CAD software and 3D printer

Pitek, Peter Modification, design and manufacture of smartphone cover using CAx technologies

Paulovič, Adam The selection of machine tool for turning operations on given component

Meliš, Martin Design and manufacturing of rock-climbing board

Minárik, Štefan Rectification of cutting tools

Štefánik, Daniel Design and manufacture of the folding knife with CA systems

Prílesan, Matúš Design and production of the external lateral cutting tool model for education

Rendeková, Tímea Calibration sample design for Eddy Current Testing

Bugyi, Jakub Parts designing using a generative design

Antala, Richard Laser micromachining

Šalát, Jozef Automation of continuous centrifuges

Koš, Jozef Design and manufacture of the gap gauge prototype

Dedík, Martin Optical measurement of precise 2D and 3D shapes in piece production

Šiška, Denis Milling cycles in Sinumerik control system

Socha, Milan Design and creation of 3D CAD model of solid carbide mill in CAD software

Novák, Michal Design of the wind mast tower with the well - project of the reduced functional model of the well with water pump for wind power

Matovič, Samuel Design and production of the external bent turning tool model for education

Belák, Adam Ideal design of warehouse system for rotary components

Jurkovič, Jakub Generative NC programing by CATIA for milling

Richnák, Marek Comparison of CAM softwere in the manufacture

Balogh, Ivan Laser machining of metal matrix composites

Gendiar, Ivan Laser beam polishing

Váňa, Vladimír Decoupling ring tensioner

Čižmárik, Ivan Surface treatment of cutting tools

Katona, Gabriel Comparison of component manufacture by injection molding and additive manufacturing from the standpoint of accuracy of dimensions

Dudás, Gergely Rationalization of the production of selected components in the company TechniCAD s.r.o. using CAx systems

Miček, Ján Design and production of the external straight turning tool model for education

Mendel, Ivan Design and implementation of software support for the processing of the cutting wedge geometry

Tomka, Patrik Generative NC programing by CATIA for turning

Veselý, Michal Additive manufacturing of complex components

Krajčovič, Denis Laser machining

Šumichrast, Dominik Numerical simulations of torsional vibrations of drilling tool

Pecko, Tomáš Design optimisation of welded oil tank using CAD

Vacula, Lukáš Quality monitoring of shear surface when shearing of cages for needle roller bearings

Ďurmek, Andrej Soldering of thin-walled copper pipes

Soukup, Peter Laser beam welding of brass

Bakovka, Jozef Laser beam welding of aluminium alloys