Romanian Welding Society

2021

“Welded Art” Virtual Exhibition

2021

Asociaţia de Sudură din România
Romanian Welding Society

Ivan BARAGHIN was born in Chisinau, Republic of Moldova and attended the Faculty of Engineering, "Dunărea de Jos" University of Galati. Between 2017 and 2019, he attended the Master's degree in Welding Engineering Design and Simulation at the Faculty of Engineering, "Dunărea de Jos" University of Galati.

The model was made in 2017, in order to support the diploma project entitled "Design and production of a naval model", developed under the coordination of Prof. univ. dr. eng. Elena SCUTELNICU. The ship GALATIENSIS was made of steel plate, modelled and welded by hand with coated electrodes. Electrode wire was used to represent the connections between masts, sails and rigging on board a sailing ship and nuts were used to represent the sail and porthole fastening systems.

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Nicoleta BOTEZATU is a 2018 graduate of the Industrial Economic Engineering (IEI) program, Engineering and Management field, Faculty of Engineering, "Dunărea de Jos" University of Galati. Between 2018-2020 followed the Master's degree in Quality Management in Industrial Engineering in the same faculty.

The model was made in 2018, in order to support the diploma project entitled "Design and realization by thermal assembly of a decorative metal product", developed under the coordination of Prof. univ. dr. eng. Elena SCUTELNICU. The exhibit was made by welding galvanized steel nuts. The bird was made of recycled crockery elements and joined by welding

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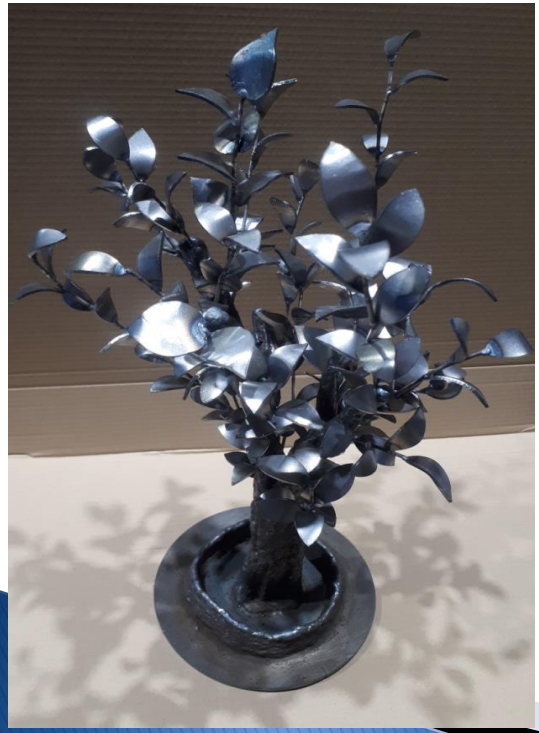
Budasca Daniel - IWE engineer, and I also like to create welded art pieces in my free time, I have 9 years of experience as a WIG welder, this is where my passion comes from. I've started on this path as a welder, then took my bachelor in welding engineer and right afterwards I've graduated as an IWE engineer.



The **small metal tree** – for this piece a frame was created by welding steel bars, the tree bark look was obtained with MAG layer deposition, the leafs were obtained from sheet metal by laser cutting and finally the leafs were WIG welded on the branches. This piece is approximately 500 mm tall and it weights around 10 kg.

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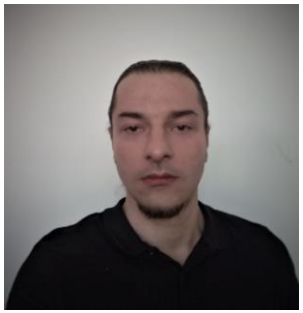

Mihai Brindusoiu – is a welding technician in the Department of Manufacturing Engineering, Faculty of Politehnica Timisoara and SAMROBOTICS

The tree was plasma cut from 1.5 mm thick mild steel sheet. The robot job was generat from a DXF file using Sprutcam.

The piece on the right was made by MAG cladding without the use of offline programing software.

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Andreea GINGINĂ is a 2018 graduate of the Industrial Economic Engineering program, Engineering and Management field, Faculty of Engineering, "Dunărea de Jos" University of Galati. Between 2018-2020 she followed the Master's degree in Design and Simulation in Welding Engineering in the same faculty.

The model of the **retro car** was designed and realized in 2018, in order to support the diploma project entitled "Study on investments in the national automotive industry. Design and realization of a car model", developed under the coordination of Prof. univ. dr. eng. Elena SCUTELNICU. The model was designed using different 3D modelling programs and made of metallic materials, assembled by welding.

Viorel Loghin - Romanian artist that made art objects from recycled machine parts, distribution chains, sheets, screws, etc.

Edward Scissorhands Metal Art - This sculpture is made of 1.5 mm sheet metal and recycled machine parts. It has a height of 2.10 meters and a weight of 120 kg. It was made for a hair salon in Bucharest, Romania. A layer of colorless varnish was applied for protection against corrosion.

Paul MIRONOV is a welding technician in the Department of Manufacturing Engineering, Faculty of Engineering, "Dunărea de Jos" University of Galati. His passion for transforming and shaping "metal" has led to the development of more than 30 exhibits, combining manufacturing processes such as welding, cutting, polishing, etc.

The Engineer's Heart was made in 2021 in the Manufacturing Engineering Department, the author using recyclable objects, which the author transformed into a metal art exhibit. His vision started from the fact that the heart is the engine of life and of the whole body, and the engineer's heart is the engine of movement. The engine of movement drives creation and innovation, characteristics that underpin modern developments in engineering.

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THE ROLE OF LIFE - Work means dedication, tenacity, talent and focus. When we put soul and passion into what we do, then the "Fruit of Life" appears. The feeling of fulfilment, following a job well done, will sprout and bear fruit. It is our duty to pass on our roots to future generations, to help them develop their creative passions and to leave them the fruit of our work.

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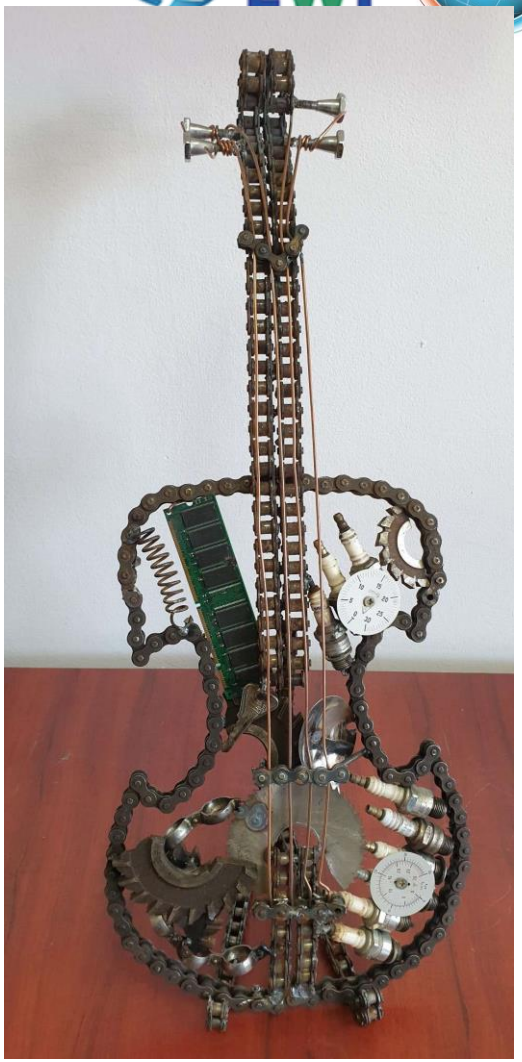

The violin was made in 2020 in the Manufacturing Engineering Department, the author using recyclable objects, which he transformed into a "metal art" exhibit. The author's vision was the collaboration of specialists from different engineering fields such as mechanical engineering, industrial engineering, automotive engineering, electrical and electronic engineering, etc.

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Tufaru Erica Andreea - master student at University Politehnica Timisoara, studied Mechanical university and finished Welding engineering profile.

For my license, helped by my teacher Feier Anamaria I designed and physically made my project, a welded table and a chair. My theme was entitled "Art in welding". They were made of 45 steel and welded by the Wig / Tig process. The chair is approximately 80 cm tall and it weights around 10 kg and the table is around 45/50 cm and it weights around 30 kg. The whole project lasted almost 1 month and a half. I enjoyed every minute during this project, I got the chance to make something on my own and to see this 4 years and all the knowledge transposed into such a beautiful and practical thing.

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Veresezan Laura and Versesezan Alexandru - master students at University Politehnica Timisoara – welding field.

Model of First welded bridge from Romania- the model was 3D printed, is the dissertation paper which aims to highlight the first welded bridge from Romania.

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Vera PETCU attended the Faculty of Engineering, "Dunărea de Jos" University of Galati. She is a 2019 graduate of the Industrial Economic Engineering (IEI) program, Engineering and Management field.

SUSPENDED BRIDGE - The model was made in 2019, in order to support the diploma project entitled "Feasibility study "Suspended bridge over the Danube". Design and realization of a mock-up "Bridge - welded construction", elaborated under the coordination of Prof. univ. dr. eng. Elena SCUTELNICU.

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