



## Who we are?

Our journey began with the AGH Solar Boat Team over a decade ago, where we designed and built solar-powered boats, achieving success in international competitions. Even then, we were united by a passion for innovation and precision in our work. Now, with the baggage of professional experience, we have decided to combine our strengths to help our customers overcome their engineering challenges.



## Our competences

Our company specializes in the design and production of machines, components, and tools for a wide range of industrial sectors. We undertake projects in the transportation and manufacturing industries, as well as in the wind energy and oil and gas sectors. With many years of experience and strong collaboration with advanced technological facilities, we offer comprehensive services—ranging from design concepts and documentation to FEA/CFD verification and the finished product with full documentation, ready to conquer the market!



### DESIGN

- Machinery design (CAD)
- 2D documentation (GDNT)
- User's manual, Documentation for CE
- FMEA



### FEA & CFD

- Structural analysis (FEA)
- Modal and harmonic response analysis
- CFD analysis



### PRODUCT LAUNCH

- Suppliers coordination
- Technical project execution
- Prototyping (SLS, DLP printers, CNC machines)

## Project examples

As a team of engineers with diverse experience, we have successfully completed numerous projects across various industries. Examples include:

- ❖ Structural verification of wind turbine components
- ❖ Structural assessment of lifting tools
- ❖ Modal and harmonic response analysis of rotating equipment
- ❖ Fatigue evaluation of wind turbine components
- ❖ Stability assessment of shell structures (buckling), of RDF furnace
- ❖ Design optimization for improved dynamic behavior of turbine generator
- ❖ Design of precise test stand for mmWave equipment
- ❖ Design of electric bus charging equipment
- ❖ Correlation of FEA results with test data for dynamic test of the turbine generator
- ❖ Design of various types of manufacturing machines
- ❖ Creation of 2D documentation using GD&T standards
- ❖ Development of prototypes through rapid prototyping technologies, such as 3D printing and CNC machining
- ❖ CNC programming using CAM software

## Contact us!

We are thrilled to bring our expertise to your service. Feel free to contact us for more information and references!



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