





Rozvoj moderného strojárskeho vzdelávacieho programu v oblasti zelenej inteligentnej výroby

Aktivita 4: Kurz aditívnej výroby Téma: SLS tlač Prednášajúci: Oliver Hinca, eRobots

BIN SGS02: Výzva na podporu inštitucionálnej spolupráce medzi inštitúciami vysokoškolského vzdelávania, strednými školami a súkromným sektorom



ŽILINSKÁ UNIVERZITA V ŽILINE Strojnícka fakulta

Katedra obrábania a výrobnej techniky



UiT The Arctic University of Norway, Narvik



Stredná priemyselná škola Dubnica nad Váhom

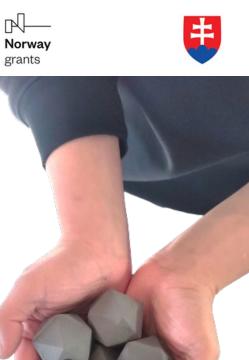


e-Robots Rapid manufacturing

About us



- Industrial 3D printing from powder and resins
- SLS, SLA, FDM technologies
- Mediation of metal parts production











Our technologies - Everything for custom 3D printing











Advantages of SLS and SLA

Ultra-fast production and high precision.



- Selection of method according to application
- Wide range of materials
- Different material properties
- Fine details
- Shape freedom
- Low waste
- Price



Norway grants









Popular materials

We can find the right material for your application.

- Nylon PA12
- Materials for rapid prototyping
- Rigid materials
- Temperature resistant materials
- Tough and durable materials
- Elastic materials



Strojnícka fakulta

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Surface treatment of parts - according to customer requirements.









- Sandblasting
- Pickling
- Colouring
- ESD spray
- Protection against staining
- Anti-scratch protection











3D printing for prototypes and small batches Comparison of CNC and SLS production prices.











We make 1000 and 1 piece

Examples of our production.





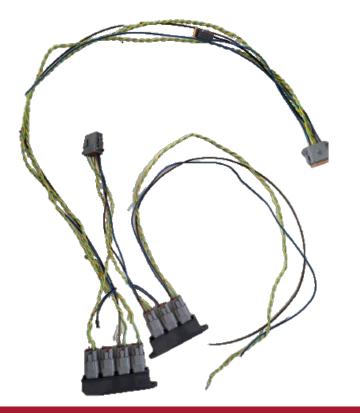






Prototyping

For now we need one piece, then maybe we will modify it.







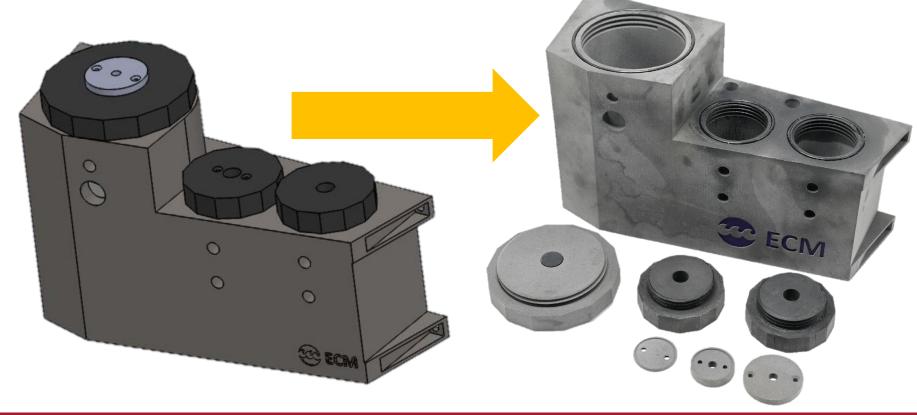






Filter block

From design to manufactured piece in 3 days.

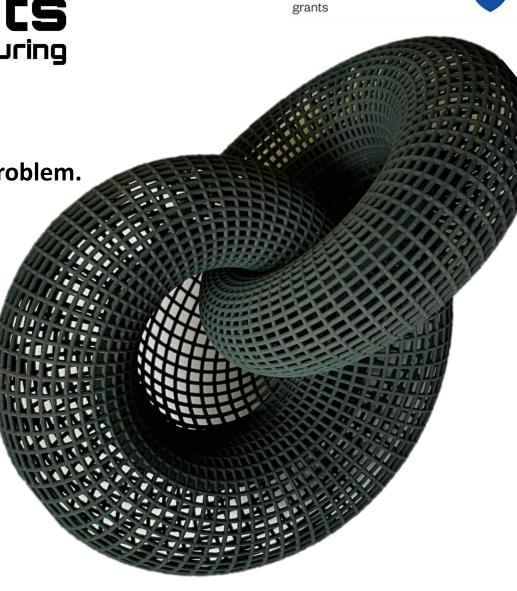






Art objects A formally complex work? No problem.

- Shape complex parts
- Moving models



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Film and theatre props

And can we come get it tomorrow night?

- Fast production
- Fine details





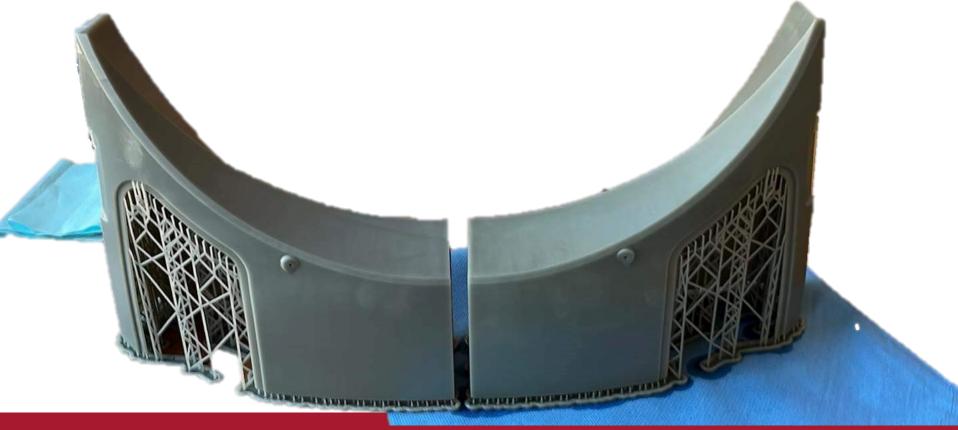






Models for exhibition

Detailed model of a robotic craft in 1:2 scale.







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Product design

Tire and shoe design.









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Signalling modules

A case study using SLS, SLA and reverse engineering.



- 3D scanning
- Optics SLA Clear resin
- Bottom SLS PA12
- Custom electronics





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Spare parts Parts for candy production line.

- Spare parts
- Broken parts
- Unavailable parts







Custom packaging not only for electronics Control units for robotic applications.





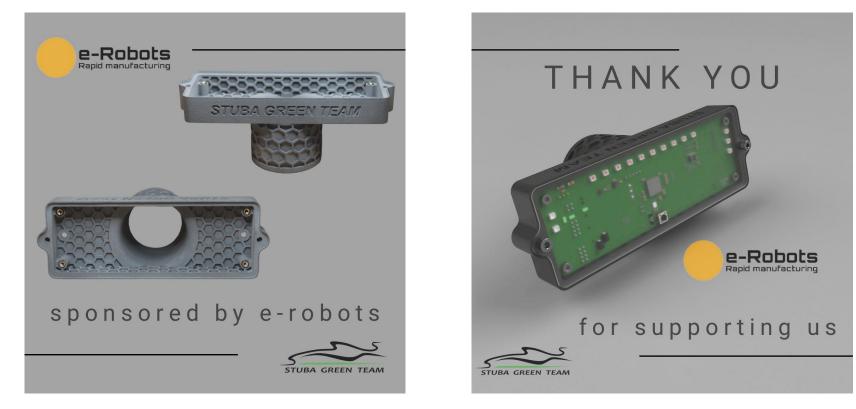






Parts for STUBA Green Team

Sponsorship of the only electric student formula in Slovakia.







Thank you for your attention

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