

Vladimir Ternovkyh

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Portfolio vlterno.github.io

SUMMARY

I'm a mechanical engineer with a strong passion for human-centered design from conceptualization through builds to mass production. **In my portfolio:** Launched [Formlabs Form 4](#) and [Quick Release Build Platforms](#), iF Design Award 2021 for [handheld 3D Scanner Calibry](#), European Product Design Award for external battery charger One **Skilled in** CAD, design analysis, generating of mechanical solutions, manufacture troubleshooting, injection molding, prototyping, design for manufacturing, quality control, and inspection, defining and execution of engineering tests.

EXPERIENCE

Senior Mechanical Engineer

Jan 2024 - now

Brelyon Inc

San Mateo, CA

- Led development and release of the [UR Extend monitor](#), bringing a new type of immersive Brelyon Ultra Reality display from proof of concept to production
- Established robust engineering practices, including CAD standards, part numbering schemes, validation documentation, risk register development, and PLM system organization
- Designed and implemented solutions for optical-mechanical challenges and developed a shared cross-device architecture to reduce costs across the UR monitor product family
- Developed a cockpit stand simulator utilizing Brelyon monitors to demonstrate immersive capabilities
- Designed and built fixtures and jigs for the quality control of optical components
- Supported industrial design, manufacturing, and sourcing teams throughout the product lifecycle

Mechanical Engineer

Apr 2022 - Sep 2023

Formlabs Inc

Formlabs HQ, Sommerville, MA

- Launched the [Quick Release Build Platforms](#) from scratch to MP
 - Worked on the high cosmetic parts of the [Formlabs Form 4](#)
 - Launched SLS accessories: [Fuse Sift Glovebox Panel](#) and [Fuse Depowdering Kit](#)
- Responsibilities:
- Managed independent projects spanning mechanical engineering and industrial design
 - Created detailed CAD designs, engineering drawings, and maintained documentation in PLM (Propel)
 - Collaborated closely with Global Sourcing, Manufacturing, and Testing teams
 - Conducted product risk assessments, developed validation plans, and led testing activities
 - Designed and built fixtures and jigs to support production and performing IQC, IPQC, FQC
 - Prototyped new mechanisms, evaluated materials, and researched challenges in 3D printing

Lead Design Engineer

Aug 2017 - Jan 2022

ART UP Studio LLC

Moscow, Skolkovo Innovation Center, Russia

- More than 50 projects successfully taken from concept to prototype or mass product.
- Mechanical and design engineering, project management, team-leading, engineering support of industrial design team, collaborating with electrical engineers
- **Accomplishments:** iF Product Design Award 2021 for the handheld 3D Scanner "Calibry" ([launched](#)), utility patent RU #127951 of the Power Lines Monitoring Sensor, 3D Feet Scanner "TRYFIT" of my design passed to the final selection in the iF Design Award 2021

Mechanical Engineer

Jun 2018 – Feb 2020

MAJI LLC

Moscow, Skolkovo Innovation Center, Russia

- Development of SMART PACK device for individual filtration

Design Engineer

Dec 2016 – Apr 2017

Objectlab LLC

Moscow, Russia

- Designing a smart parking sensor for mass production

Junior Engineer

Jun 2015 – Jun 2016

Telum LLC (Ranberry)

Skolkovo Innovation Center, Russia

EDUCATION

Bachelor's degree in engineering,

2011 – 2016

Bauman Moscow State Technical University

SKILLS

CAD (CATIA, Onshape, Creo, Fusion 360, SolidWorks), engineering reports (DFM, BOM), manufacturing (injection molding, CNC, sheet metal, die casting, etc), additive technologies (FDM, SLA, SLS), engineering drawings (GD&T), simulation (Fusion 360, Ansys), reverse engineering, renderings & graphics (Keyshot, Illustrator)