

# Vladimir Ternovkyh

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Portfolio [vlterno.github.io](https://vlterno.github.io)

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## SUMMARY

I'm a mechanical engineer with a strong passion for human-centered design from conceptualization through builds to mass production. I'm looking for new opportunities in the Bay Area after relocation from Boston, where I worked for Formlabs on the recently launched [Formlabs Quick Release Build Platform](#) for SLA printers and cosmetic components for the next generation of FormLabs 3D printers, and recently launched [Fuse Depowdering Kit](#).

**In my portfolio:** the iF Design Award 2021 for [handheld 3D Scanner Calibry](#), the European Product Design Award for external battery charger One, The Company of the Year award for the medical device for reinforcing blood vessel prosthesis, two utility patents.

**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.

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## EXPERIENCE

### 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 new generation of the Formlabs 3D printer
- Developed accessories for the Fuse (Formlabs SLS printer)

#### Responsibilities:

- Leading independent projects that span both mechanical and industrial design sides
- Creating detailed designs in CAD and drawings (OnShape). PLM/document control systems (Propel)
- Collaborating with Global Sourcing, Manufacturing, and Testing teams
- Product risk assessment, product validation planning and testing. Creating fixtures and jigs
- Quality control and inspection (IQC, IPQC, FQC), inspection criteria. Troubleshooting mass production
- Prototyping new mechanisms, testing materials, and research 3D printing challenges

### 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 (CAD, CAE, CAM), design and engineering research
- Project management, team-leading, engineering support of industrial design team, collaborating with electrical engineers. Estimating resource requirements, monitoring progress and balancing as needed. Direct communication with a client and top management
- **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.
- European Product Design Award for the external battery charger "One", my contribution was in the visualization of the device.

### Junior Engineer

Jun 2015 - Jun 2016

#### Telum LLC (Ranberry)

Skolkovo Innovation Center, Russia

- Developing the first LTE base station in Russia: CAD, assembly, and testing of prototypes, 3D visualization
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## EDUCATION

Bachelor's degree in engineering,

2011 - 2016

#### Bauman Moscow State Technical University

Materials and Technology Department

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## SKILLS

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