

Yuri Zaitsev

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EDUCATION

Stanford University

2019 Stanford, CA
Advisor: David Kelley
M.S. Mechanical Engineering
Design Impact - Healthcare / Sustainability

Northeastern University

2013 Boston, MA
B.S. Mechanical Engineering
Physics Minor

SKILLS

Processes

Design Thinking, Systems Design
Human Centered Design, Ethnographic Interviewing
Educational Workshop Development, Concept Design
UI/UX, Game Design, Technical Writing

Technical

SLA, FDM, DLP, SLS(M), EBM 3D Printing
Silicone/Metal Casting, Machine/Wood Shop Tools
Microfab, Electronics Design

Software

Python: TensorFlow, Keras, Scikit Learn, MATLAB, R
Solidworks, ProE, Blender
Adobe Suite, MS Office, Materialize Magics

TEACHING EXPERIENCE

ME101: Visual Thinking

Stanford d.School w/ John Edmark

ME216BC: Advanced Product Implementation

Stanford d.School w/ Bill Burnett, Elijah Woolery

MKTG346: Humor Serious Business

Stanford GSB w/ Jennifer Aaker, Naomi Bagdonas

Design Thinking Bootcamp

Full day workshop for industry professionals (sold out).
Focus on teaching ethnographic interviewing, framework
development, and quick iterative prototyping.

Design Thinking w/ Agility Workshop

ProductCraft 2019
Hour long seminar on how design thinking is being used
in industries from the financial sector to healthcare, to
help teams align and overcome "wicked problems".

Multiday Human Centered Design Workshop

Forth Corporation
2 day workshop event for merging organizations that
used design to align teams, set teamwork behaviors, and
establish an actionable strategic pathway.

PROFESSIONAL EXPERIENCE

Design Research Consultant

Quotient Design Research
2018-2019 Palo Alto, CA

- Consulted with a Fortune 500 company to innovate in home robotic field for millennial, elderly, and large family populations.
- Performed diary assessments, ethnographic interviews, framework analysis and validation, and prototyping to create a new robotic platform.
- Led workshops/codesign events with the company and presented findings to directors of R&D.

Senior Research Engineer

Stryker Orthopaedics
2014 - 2017 Mahwah, NJ

- Was lead of new joint replacement concept development. Established 3 major, market leading, product families: spine, partial knee, and robot assisted surgery with strategic vision.
- Brought 4 implants to market from concept development through FDA 510(k) clearance.
- Aligned engineering groups, marketing teams, thought-leader surgeons, and the FDA to deliver innovative products.
- Developed laser 3D printing technology for titanium alloys to create solid, porous, and linked structures for use in orthopedic applications.

Visiting Researcher

Northeastern University
2013 - 2015 Boston, MA

- Designed a tactile display to aid visually impaired individuals, which assists in discerning facial patterns during social interactions.
- Performed user testing, iterative prototyping, and predictive finite element simulation on designs to ensure prototype longevity and success.

PUBLISHED WORK

"Porous structure produced by additive layer manufacturing"

Patent EP3181273A1

"Bone plate system with inserts for contacting an adjacent bone surface"

Patent US15/229,966

Scalable, MEMS-enabled, vibrational tactile actuators for high resolution tactile displays

Journal of Micromechanics and Microengineering, 24(12), p. 125014

NOTE

US Citizen. Fluent in English and Russian.