



Akshay Patil

Designer-Engineer

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OTHER ACHIEVEMENTS

- Finalist at "Futuristic cockpit 2030 competition" by Faurecia India in 2017
- Certified Solidworks expert

EXHIBITIONS

- Stockholm Furniture Fair '19 (& participated in panel discussion)
- Milan Design Week '19
- Form/Design Center '19
- Lunar & Planetary Institute '19 (2-week study trip to NASA)
- Stockholm Furniture Fair '20

SKILLS

Professional

Industrial Design
Production Engineering
Industrial Management
Product Development
Lean Production

Design Research
TQM
Photography

Software

Solidworks
CatiaV5
Keyshot
MS Office
Python

Fusion 360
Photoshop
InDesign
CES edupack

Languages

English (native)
Swedish (learning)
Hindi (fluent)
Marathi (native)
German (basic)

Interests

Photography
Trekking
Motorcycling
Guitar

EDUCATION

Master's in Industrial Design

Faculty of Engineering (LTH), Lund University
08/2018 - 06/2020 - Lund, Sweden

Bachelor's in Production Engineering & Industrial Management

College of Engineering Pune (COEP)
08/2011 - 06/2018 - Pune, India

EXPERIENCE

Engineering Intern

Finearc Systems

Designer and manufacturer of automated arc-welding systems
12/2017 - 05/2018 - Pune, India

- Designed drawing viewing stands with in-house waste after noticing problems with posture & workspace usage by assembly workers.
- Observed over-utilization of paint in production, then analyzed yearly consumption & costs from an ERP system, computed losses due to environment & equipment, and worked out immediate improvements.

Engineering Intern

R.D. Enterprises

Manufacturer of machined components for diesel-engines
06/2016 - 12/2016 - Pune, India

- Supported Q&A department in implementing various lean-tools to analyze defects in precision machined components.
- Reduced workforce for assembly of a rocker arm by designing a pneumatically powered fixture. (3 times faster & half manpower)

VOLUNTEERING

A-Sektionen TLTH (2018 – 2020)

Student representative at Lund University to improve education quality & student life through weekly meetings and feedback.

Entrepreneurship Development Cell (2014 – 2016)

Part of the management team in my college to co-ordinate events on entrepreneurship by collaborating with local businesses and start-ups during undergraduate studies.

PROJECTS

(completed during Master's - visible on [website](#))

- Collaborating with NASA for a [Mars-habitat](#) with artificial-sunlight technology & powering it with renewable energy from thermal expansion. (part of a 2-week study trip to NASA-LPI, Houston)
 - Reducing mess from excessive table decor and installing complex wiring with a customizable cordless [lamp](#) for multiple spaces & scenarios.
It was then exhibited by our university at Stockholm Furniture Fair 2020 where I also managed its [website](#) content.
 - Developing user-behaviour & market-research based [self-heated lunchbox](#) where I learned Python to program an IoT system on a ESP32 module. (Master Thesis)
 - Initiating water-saving habits by designing [applications](#) for a patented fabric (cTrap) infused with activated-charcoal to passively refresh clothes & accessories.
Further on, it was exhibited by our class at Milan Design Week 2019 where I also carried out product-photography and managed [website](#) content.
 - Empowering & educating children with fun through [playground](#) and [first-aid kit](#).
 - Using almost every manufacturing process, old, and new, for making a brutalist [sundial](#).
Then it was exhibited by our university at Stockholm Furniture Fair 2019 where I also supported in the designing of the exhibit.
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