

Curriculum Vitae

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Eindhoven, 5612AH

Driver's license (B)

EU Citizen
(No Visa required)

Petr Dobias

Product Designer & Engineer



about

Multidisciplinary Industrial Designer at the intersection of mechatronics, electronic product design, and automotive design. I bridge the gap between aesthetic form, user experience, and mechanical function, utilizing extensive CAD and prototyping skills to deliver products that are both visually pleasing and manufacturing-ready.

education

2021 - 2025

BSc Industrial Design

Eindhoven University
of Technology, NL

2023

Exchange - Product Design

Carnegie Mellon University,
USA

2025 - Present

MSc Industrial Design

Eindhoven University
of Technology, NL

experience

June 2024
December 2025

TU/eautomotive Automotive designer

- Lead designer and chief of construction of ARIA: a driveable, sustainable, concept car designed from ground up to be repairable by its owner.
- Steered early-stage ideation to **define a societally relevant concept**.
- Collaborated within a multidisciplinary student team of 25 members to **design a functioning exterior and interior**.
- Managed the assembly** of the car's exterior, **distributing tasks** and organizing productive work sessions, ensuring a high-quality result.



languages

English - C2

Czech - C2

Dutch - A2

German - A1

September 2021
May 2024

Centrin CZ s.r.o. Technical support specialist

- Provided IT support both in-person and remotely over TeamViewer.
- Troubleshoot and resolved issues with Windows OS and computer peripherals (e.g. printers, routers)

soft skills

- ♦ Interdisciplinary Teamwork
- ♦ Adaptive Problem Solving
- ♦ User-centric Design
- ♦ Systems Thinking
- ♦ Stakeholder Communication
- ♦ Presentation & Storytelling

digital tools

- ♦ Fusion 360
- ♦ Keyshot
- ♦ Blender
- ♦ Solidworks
- ♦ KiCAD
- ♦ Adobe CC
- ♦ Arduino IDE (C++)

hard skills

- ♦ Parametric Modeling (CAD)
- ♦ Design for Manufacture & Assembly
- ♦ 3D Printing (FDM, SLA, SLS)
- ♦ Rapid Prototyping
- ♦ Visual Communication / Sketching
- ♦ Soldering / Circuit Prototyping
- ♦ Mechatronics / Robotics
- ♦ Embedded Systems Programming (e.g. ESP32, C++)

project highlights

TU/e comotive

ARIA - repairable concept car

ARIA is a driveable concept car designed from ground up to be [repairable by its owner](#). Designed from scratch by me and my student team, the total budget of this project **exceeded €250.000** to realize our vision of repairable and sustainable mobility.



easily accessible battery pack



1:1 scale sketching to define proportions



each body panel was cut by hand



rear view



SLS 3D-printed parts and crossply CF panels

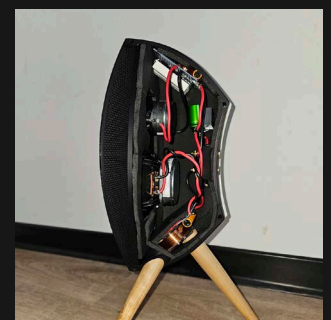
Studio @ Carnegie Mellon University

Study in Bang & Olufsen Design Language

A desktop speaker system designed using the design language of the Danish brand Bang & Olufsen during my exchange at CMU. Later, I learned about acoustics and audio electronics to create a **fully functioning Hi-Fi speaker** that now acts as a stereo setup in my apartment.



product render (Keyshot)



tuned internal components



connected companions mirror each other's movements over distance



soft-robotic TPU tentacles can be interacted with to act out different emotions

TU/e Final Bachelor Project OCTOPING

A pair of **Wi-Fi connected communication devices** in the form of expressive octopus companions, designed to help separated **long-distance couples** spontaneously reach out to (ping) each other and playfully share how they feel, without the need for words.

Featured at [4TU Dutch Design Week 2025](#)

More available at petrdobias.me