# Tomas Novak

*Senior Mechanical Engineer, Automotive*

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## PROFILE

Mechanical engineer with 10 years of experience designing powertrain components for cars. I take parts from concept through testing to production, and I have 6 patents filed with my teams.

## EXPERIENCE

**Senior Mechanical Engineer** 2020 to present
*Vltava Automotive · Prague, Czechia*

- Lead the design of a gearbox housing produced at 400,000 units a year
- Reduced part weight by 14% while keeping the same stiffness
- Coordinate suppliers in 3 countries and a test team of 6

**Mechanical Engineer** 2016 to 2020
*Bohemia Components · Mlada Boleslav, Czechia*

- Designed and validated 9 engine mounts with finite element analysis
- Cut warranty claims on one part by 60% with a redesign
- Ran durability tests of up to 2 million cycles

**Junior Engineer** 2014 to 2016
*Moravia Tooling · Brno, Czechia*

- Prepared 3D models and drawings for injection molds
- Supported the launch of 5 new tools on the shop floor

## EDUCATION

**MSc, Mechanical Engineering** 2014
*Czech Technical University*

**BSc, Mechanical Engineering** 2012
*Brno University of Technology*

## SKILLS

**Design:** CATIA, SolidWorks, GD and T, DFM, tolerance analysis

**Analysis:** FEA with Ansys, fatigue analysis, test planning

**Production:** APQP, PPAP, FMEA, supplier quality

## CERTIFICATIONS

- Certified SolidWorks Professional, 2019
- Six Sigma Green Belt, 2020

## LANGUAGES

Czech (native), English (fluent)