



# Unofficial LEGO® Technic Builder's Guide

*Pawel Sariel Kmiec*



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## Unofficial LEGO® Technic Builder's Guide Pawel Sariel Kmiec?

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What will you build? This thoroughly updated second edition of the best-selling Unofficial LEGO Technic Builder's Guide is filled with tips for building strong yet elegant machines and mechanisms with the LEGO Technic system. World-renowned builder PaweÅ' "Sarielâ€• Kmiec covers the foundations of LEGO Technic building, from the concepts that underlie simple machines, like gears and linkages, to advanced mechanics, like differentials and steering systems. This edition adds 13 new building instructions and 4 completely new chapters on wheels, the RC system, planetary gearing, and 3D printing. You'll get a hands-on introduction to fundamental mechanical concepts like torque, friction, and traction, as well as basic engineering principles like weight distribution, efficiency, and power transmissionâ€"all with the help of Technic pieces. You'll even learn how Sariel builds his amazing tanks, trucks, and cars to scale. Learn how to:

- Build sturdy connections that can withstand serious stress
- Re-create specialized LEGO pieces, like casings and u-joints, and build custom, complex Schmidt and Oldham couplings
- Create your own differentials, suspensions, transmissions, and steering systems
- Pick the right motor for the job and transform it to suit your needs
- Combine studfull and studless building styles for a stunning look
- Build remote-controlled vehicles, lighting systems, motorized compressors, and pneumatic engines

This beautifully illustrated, full-color book will inspire you with ideas for building amazing machines like tanks with suspended treads, supercars, cranes, bulldozers, and much more. What better way to learn engineering principles than to experience them hands-on with LEGO Technic? New in this edition: 13 new building instructions, 13 updated chapters, and 4 brand-new chapters!



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424 Seiten

Kurzbeschreibung

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Pawel "Sariel" Kmie? is a LEGO Technic enthusiast based in Warsaw, Poland. A prolific blogger and model builder, Sariel's LEGO creations have been featured in many magazines, the world's most popular LEGO blogs, and even prompted the LEGO company to use his help in developing some of its products. Sariel is an acting LEGO Ambassador and an official reviewer of LEGO sets, which he showcases at his popular YouTube channel (over 40 million views) along with his own creations. His models have been praised by historians and military experts and his articles are used as reference by the University of Cambridge's engineering department. Check out his models and more at <http://sariel.pl/>.

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