ATHLAS

all-terrain helicopter landing system

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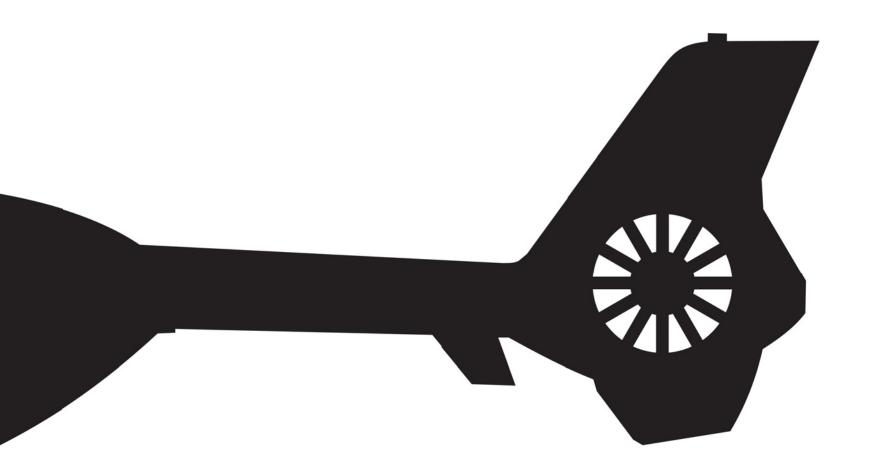
ETHzürich





"If you are in trouble anywhere in the world, an airplane can drop you flowers, but a helicopter can land and save your life.

Igor Sikorsky, Aviation pioneer



Vision

We aim to enable helicopter landings on uneven and steep terrain with an inclination of up to 20 degrees. Thereby we are removing crucial limitations of today's helicopter landing gears. This will expand the application area of helicopters significantly.





To prove the feasibility of an adaptive landing gear, we are developing a prototype for an unmanned helicopter. With a rotor diameter of 3.2 m and an empty weight of 50 kg this model is ideal to test all required technologies. Our landing gear will consist of four individually controllable legs for maximal adaptability and stability. The resulting prototype will not only be applicable for unmanned platforms but will additionally serve as a technology demonstrator for manned systems. With the developed technology we will be able to enlarge the operational boundaries of today's helicopters.





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We are 12 students from ETH Zurich and ZHAW Winterthur. Our different backgrounds – mechanical, electrical and systems engineering – enable a dynamic approach to complex problems.

We are taking on an intensive challenge within the Focus Project course: Within only eight months we are going to develop a working prototype from an initial, market-oriented question. The outcome of this project will be presented at the end of May 2017.

Support

Prof. Dr. Marco Hutter Professor at RSL

Fabian Günther Engineer at RSL (Coach)

Marko Bjelonic Engineer at RSL (Coach)

Hendrik Kolvenbach Engineer at RSL (Coach)

Michael Liem Student Coach



Team



Gokula Englberger



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Eric Hayoz



Luca Vandeventer



Tobias Löw

Mechanical Engineering



Tim Brödermann



Jan Gasser



Lorin Mühlebach



Stephan Müller



Enea Castiello



Sponsoring

We are developing an innovative solution to enable safe helicopter landings in previously inaccessible terrain. The prototype we are constructing is hopefully just the start: We aim to make it scalable so in a further step it could be built in real scale. To get there, we need your sponsorship:

Join us as a partner or supplier and help us make our vision become reality!



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As a return for your support we offer the following sponsoring packages:

Please contact us for individual offers.

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