

# Engineering



## Challenge »

Ideas are ideas – but are nowhere near products. The key to success is to identify the development path, and to execute against the details and requirement of the process.

$$F(f)(\omega) = \frac{x_0 \frac{1}{\tau} i\omega}{\sqrt{2\pi} \left(\frac{1}{\tau} i\omega\right)^2 \omega^2}$$

## Approach »

An interdisciplinary team of experienced development engineers analyses new ideas and turns them into marketable products.

## Services »

- **Project management.** As project manager, we organize your projects or sub-projects, manage the implementation and continuously report to you on the progress of the project.
- **Development.** Our experienced development engineers assist you in finding solutions. Your ideas are captured and refined.
- **Construction.** Available drafts are converted to 3D-CAD and processed into drawings which are suitable for production.
- **Electronics.** In house, our specialists develop the mechanics as well as the analog and digital hardware including the corresponding firmware and software.
- **Feasibility studies and concepts.** Thanks to our own workshops, we are able to manufacture functional models, prototypes, or even small scale production batches in a fast and cost-effective manner. This capability decreases time to market.
- **Verification and validation.** We test your products in the laboratory and/or under actual clinical conditions.
- **Usability.** Our development process takes into consideration usability according to EN 62366. With this know-how, we assist you in the planning, conduct, and analysis of the usability of your developments.
- **Risk management.** Together with your specialists, we will establish a tailor-made risk management plan pursuant to EN ISO 14971 and assist you with the risk analysis, e.g. with a FMEA.
- **Reviews.** Our specialists can take part in your reviews and make a valuable contribution to your development thanks to their outside view.

## Trust »

We develop active and passive implants, medical devices and accessories ourselves. This is why we know the obstacles in the development of medical devices and can provide optimal support to our customers. All of our processes are certified in accordance with EN ISO 13485.

## Uniqueness »

A leading interdisciplinary team in Switzerland is working for you – practically based and target-oriented.

## Are you experiencing bottlenecks in the engineering department or are you searching for new concepts and approaches to a solution?



## Contact »

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## Carag »

Carag is a leading Swiss engineering company and point of contact for physicians, developers, and medtech companies developing high-quality products for cutting-edge medical applications. Carag has an experienced, performance-driven, interdisciplinary team consisting of engineers, physicians, medical technicians, electronic technicians and software developers. The broad range of specialized engineering and consulting services starts with technical feasibility checks and continues with product development through marketing approvals, regardless of the regulatory complexity.