AirCurve Medical
We are developing a Machine Vision guided automated endotracheal intubation system for surgical access to the patient's airway

In a nutshell
Aircurve is dedicated to revolutionizing airway access in hospital and emergency settings through the introduction of inexpensive AI-guided robotic systems for endotracheal intubation. Our product utilizes advanced machine vision and robotics to independently perform the intubation of patients with unparalleled accuracy and speed. Our technology reduces the risk of complications and human error while increasing the efficiency of healthcare delivery.

Why is our technology important?
There are 280 million general anesthesia cases each year, and the clinical needs of the field of anesthesiology have been poorly addressed until now. Our target market includes hospitals, emergency rooms, and medical centers that perform intubations on a regular basis. With AirCurve, these institutions can improve patient outcomes, increase efficiency, and reduce costs associated with manual intubation procedures.

The benefits of our solution
Our novel devices utilize machine learning and image recognition, robotics, and big data to provide greater certainty and less risk of error in typical procedures, enabling less experienced practitioners to perform the same procedures that highly trained anesthetists have been performing to date. This translates into faster training and delegation to less experienced staff, thereby reducing costs associated with anesthetists.

Keywords
Medical Device Technology, Machine Learning and AI, Surgical Robotics

Founding Team
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Prof. Patrick Schoettker (Department Head of Anaesthesia, CHUV) and Dr. André Mercanzini (Former EPFL, Founder of Aleva Neurotherapeutics) are two medical device entrepreneurs with a track record of developing technologies that transform patient care and improve clinical outcomes. Both have experience in founding innovative medtech startups, running clinical studies, and raising capital.

Prof. Schoettker and André met over five years ago to discuss his clinical needs in anaesthesia, and the difficultly associated with endotracheal intubations. They have since formed a working relationship and have long planned to develop an innovation that would improve airway access, using new methods in computer vision and robotics.

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startup launchpad

Get in touch
We'd love to speak to you more about our project.
You can book some time with us here: andre.mercanzini@aircurve-medical.com