

## Entrepreneurial ID «venture leaders» 2009

Name: Zoltan Nagy

Contact: [zoltan.nagy@femtotools.com](mailto:zoltan.nagy@femtotools.com) / +41 44 632 35 84

Project/ Company name: FemtoTools GmbH

Short description: Design and fabrication of high quality measurement and handling instruments for the micro and nanodomain.

Web site: [www.femtotools.com](http://www.femtotools.com)

Industry: micro and nanotechnology



### The venture leader

I am a PhD candidate at the Institute of Robotics and Intelligent Systems at ETH Zürich where I also received my MS degree mechanical engineering in 2006. I am fluent in German, English, French, Hungarian, Bulgarian and Luxemburgian and basics in spanish. In my free time I enjoy playing soccer.

I got interested in entrepreneurship during an internship at Sensirion where I could witness how in only few years, research results from the laboratory has been quite successfully transferred to the real world. That's why, when I got the opportunity to participate in this project, I have not hesitated a second. I don't have extensive entrepreneurial experience, yet I am a hard worker and firm believer in skill comes with practice.

more on [www.zoltan-nagy.net](http://www.zoltan-nagy.net)

### The Company

The FemtoTools capacitive force sensors provide a unique solution to measure forces in the microdomain from nano to millinewton at a competitive price. The individual calibration of the force sensors ensures high accuracy of the experimental results. These MEMS (microelectromechanical system) devices are fabricated by silicon processing adapted from IC industry and allow the fabrication of a large number of devices on a single wafer. Based on the same technology, microgrippers to handle objects from 0 to 100micrometer have been developed and commercialized. As the only commercially available microgrippers, they feature integrated force measurement allowing for the monitoring of the gripping force during the handling.

FemtoTools has an international customer base (from both research and industry) mainly working in the fields of biological research, micro- and nano-robotics, material science, and microsystems development. Simply, our products are applied wherever the handling or characterization of very small components is required. The total market in 2014 for FemtoTools products is estimated to be around €15M.

FemtoTools has been founded mid 2007 and has currently 4 employees.

FemtoTools is looking for industrial contacts providing know how in motorized micro and nano stage to collaborate on complete measuring and handling systems for the micro and nanodomain, and for distributors who increase our visibility on the market.