

Sleepiz



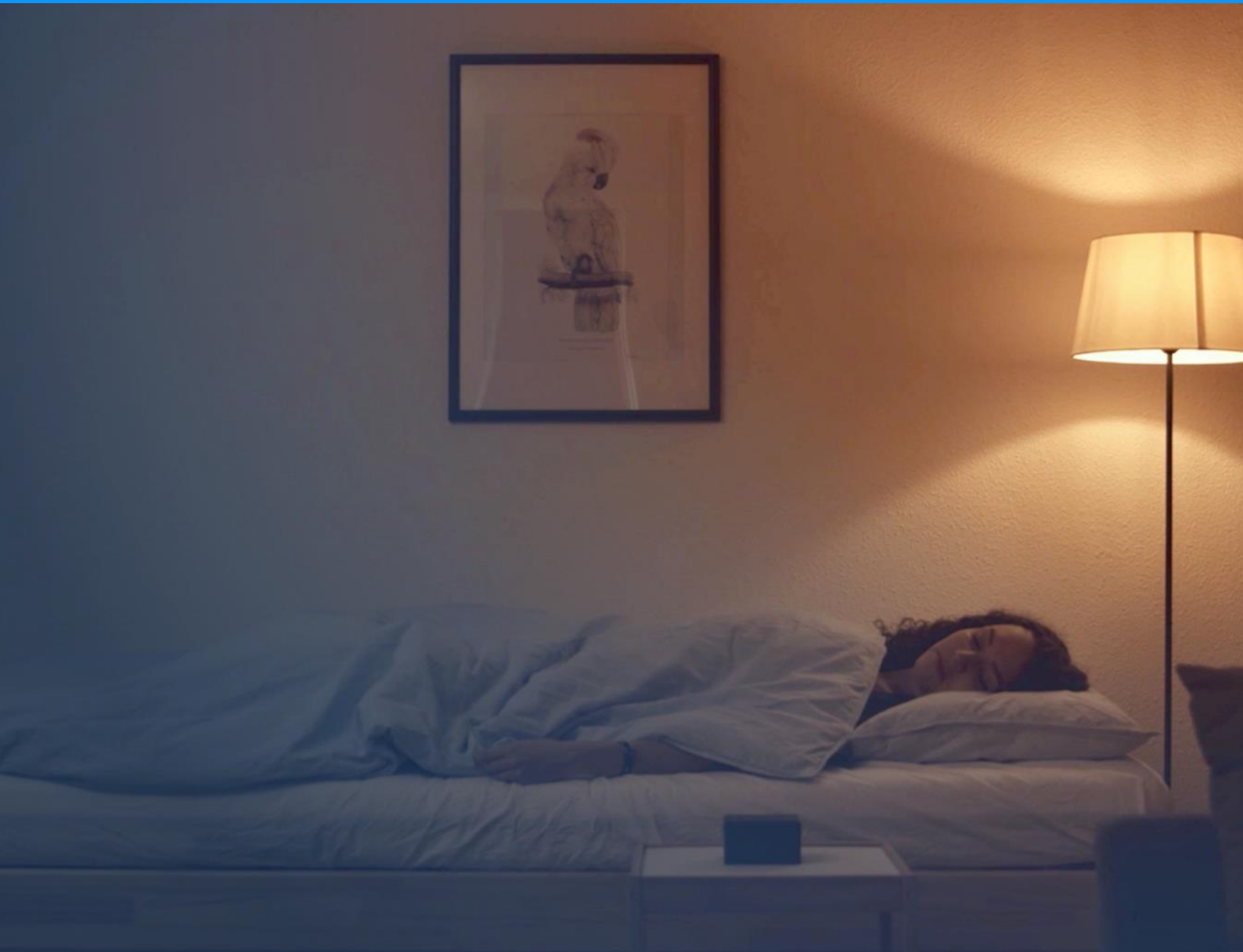
Touching lives, without touching

WE ARE HIRING!

DSP Engineer Intern (M/W)

2019

Zähringerstrasse 22 | 8001 Zurich | Switzerland





Who are we?

Sleepiz AG is a Zurich based Med-Tech startup with a mission to revolutionize sleep disorder diagnosis through contactless, continuous, nocturnal assessment of vital signs during sleep. Sleepiz is the winner of the **EIT Venture award** (2019), **Venture.ch** in digital health (2019), **DeVigier** (2019), **EU – H2020 Seal of Excellence** (2019), **Start Summit** (2019), **EIT award** in digital health (2018), **Innosuisse** (2018), **EU – H2020 SME Phase 1** (2018), silver winner in the **Mass Challenge** Switzerland (2017) Accelerator program and is ranked as the most promising digital health startup in Europe.

Who are you?

Are you interested in digital signal processing? Are you interested in high frequency RF signals? Are you passionate about learning and intellectually curious? Do you thrive in a fast paced, innovative work environment where team members hold themselves and others accountable? Are you energized by trying new things, have an agile mindset and enjoy making an impact? If the answers to these questions are a resounding **YES**, then read on!

You'll be ...

- Participating in the development of novel algorithms for non-contact vital signs estimation
- Developing algorithm and simulation tools in MATLAB
- Making clear, simple and technically sound design decisions
- Developing and maintaining enterprise grade codes
- Testing and documentation of algorithms
- Collaborating with embedded engineers to design the ideal hardware
- Assistance with electronics development – design of amplifiers & signal conditioning circuits

You should have:

- Bachelor/master's with work exp. or PhD in electrical engineering or related field
- Strong fundamentals in signal and systems (analysis in both continuous and discrete domains)
- Knowledge of frequency domain algorithms (Fourier transform, wavelets transforms, etc.)
- Strong mathematical foundation
- Programming experience with either MATLAB or Python
- Excellent communication skills and ability to work in a team

Excellent knowledge of:

- Radar systems
- Doppler radar principles
- Operation of CW and FMCW radar
- Experience with multi-antenna signals (beamforming and MIMO) is a plus
- Knowledge of analog, digital and mixed circuit design is a plus
- Machine learning algorithms (SVM, Random forest, Neural networks, etc.) is a plus



What we offer:

We are a dynamic, interdisciplinary, highly skilled team that is passionate about sleep. We foster a fun and energetic start-up culture in a relaxed environment. As a part of our dedication to the diversity of our workforce, we offer flexible working hours together with a high degree of self-responsibility and freedom. We provide performance-oriented compensation. You would have collaboration opportunities in a cross-functional team, including data scientists, software engineers and project managers.

Your application

Do you feel like your skillsets match our needs?
Do you have what it takes to join our young and dynamic team?

Do you want to be part of the ground floor of a company
that is going to take the sleep industry by storm?

Send over your CV and cover letter!

Contact

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