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EDUCATION:

Federal University of Santa Catarina (UFSC) | Florianópolis - Brazil

- → Graduation in Mechanical Engineering (2007 2012)
- → Master in Vibration and Acoustics (2013 2015)

WORK EXPERIENCE:

Laboratory of Vibration and Acoustics | UFSC - Brazil:

- → Research assistant: Experimental and numerical analysis (2009 -2012)
- → Teaching assistant: Vibration theory and experiments (2012 2013)
- → Master research topic: Psychoacoustics/subjective acoustics (2013 2014)
- → Research engineer: Cochlear implant signal processing (2015 2016)

Audio Information Processing | Technical University of Munich - Germany

- → Research assistant (2016 2018): human auditory system models
- → Teaching assistant and Bachelor/Master student tutor (2017 2018): Technical Acoustics and Signal Processing for Audio Technology

<u>Hexagon - Free Field Technologies</u> | Mont-Saint-Guibert - Belgium

→ Application engineer (2018 - 2020): Validation, quality assurance and improvement of the Actran Software Suite for acoustics, vibro- and aero-acoustics; Support and customer training; Acoustic & Vibration consulting projects for different industries

<u>Absolute Audio Labs</u> | Rotterdam/Hilversum - Netherlands

→ Audio developer (2021 - 2024): DSP development, validation and tuning of audio SoC firmware applicable to earbuds and hearing aids

SKILLS:

Spoken languages: English (C1), German (B1), Portuguese (native)

Programming languages: Embedded C, Python, SuperCollider, Assembly, MATLAB, C++/C# **Measurement equipments:** data acquisition systems, transducers and calibrators, oscilloscope, sound level meters, head & torso

Software: VS Code, Vim, Qualcomm MDE, Actran Suite, Unity, LaTeX tools, Inkscape

PUBLICATIONS:

Werner, K.; Seeber, B.U.: "MODELING THE BIMODAL LATENCY BEHAVIOR IN ELECTRICALLY STIMULATED AUDITORY NERVE FIBERS", Bernstein Conference, 2018, T72

Werner, K.; Leibold, C.; Seeber, B.U.: "INDIVIDUAL FITTING AND PREDICTION WITH A PHENOMENOLOGICAL AUDITORY NERVE FIBER MODEL FOR CI USERS". Conf. on Implantable Auditory Prostheses, CIAP, 2017, p. 92, M11b

Werner, K., Chiea, R., Cordioli, J. A.,; Paul, S.; "ANALYSIS OF COCHLEAR IMPLANT VOCODER SIMULATION INCLUDING THE CURRENT SPREAD EFFECT IN THE PRESENCE OF BACKGROUND NOISE," in Fortschritte der Akustik - DAGA '16, edited by M. Vorländer, and J. Fels (Dt. Ges. f. Akustik, Aachen).

Werner, K., Vergara, E. F., Paul, S.; Cordioli, J. A.; <u>TIMBRE ASPECTS OF RIDE CYMBALS: SOUND COLORATION ANALYSIS USING PSYCHOACOUSTIC MODELS AND SUBJECTIVE EVALUATION</u>. The Journal of the Acoustical Society of America, 138(3), p1936-1936, 2015.

Werner, K.; Cordioli, J. A.; <u>ACOUSTIC RADIATION BY MEANS OF AN ACOUSTIC DYNAMIC STIFFNESS MATRIX IN SPHERICAL COORDINATES</u>. In: *Internoise*, Innsbruck, 2013.