

Electrical and Embedded Systems Engineer

Delft, The Netherlands or Meyreuil, France (Aix-Marseille Area)

Your objective will be to design and develop electronic components of the active noise cancelling system, and in particular the real-time electronic controller, responsible for analysing the signals collected by the sensors and calculating the optimal signals to drive the actuators. You will have a key position, at the crossroads of many disciplines such as digital electronics, real-time embedded systems, signal processing and control algorithms. You will work in a small and multidisciplinary team of passionate engineers in order to tackle the problem of noise pollution.

Job responsibilities

- Developing the hardware and software architecture of electronic systems
- Studying the different technological possibilities for implementing the embedded system
- Designing the functional specifications and technical documentation
- Modelling and performing electronic diagrams and simulate functions
- Designing and building electronic boards (analog, digital and mixed)
- Performing or leading software development, debugging and deployment
- Programming embedded systems (microcontroller, DSP, FPGA)
- Performing development and validation tests of the design
- Ensuring technological survey to optimize the quality of the products developed

Skills

- You have strong problem-solving skills that lead to both logical and creative solutions
- You have affinity with working in a team and you are able to work collaboratively on projects
- You have strong analytical skills
- You have strong organization, planning and time management skills
- You have a personal sense of ownership: you hold yourself accountable to achieving goals and standards.
- Excellent interpersonal skills
- You have excellent written and verbal skills

Education & experience

- MSc or PhD in electronics or related fields with 2+ years of experience in the design of embedded electronic systems.
- Expertise in the design and development of real-time electronic boards, including in particular the implementation of control systems (feedback, feedforward, adaptive filters).
- Solid background in electronics and have experience in digital audio and acoustic signal processing.
- Knowledge of piezoelectric (patch, stack) and MEMS sensors and actuators is a significant advantage.
- Minimum full professional proficiency in English.

About DeNoize

For the continued development of active noise control on glass facades, DeNoize is looking for multiple talented and intrinsically motivated engineers. At DeNoize we are driven by purpose and inspired by the exciting tech we create. DeNoize is a rapidly expanding high-tech startup based in Delft, The Netherlands and Meyreuil, France. Our co-founders, Aman Jindal & Olivier Schevin founded DeNoize with a mission to tackle noise pollution in urban environments and enable the future of real-estate with higher comfort and healthier living areas and environment.

DeNoize is a smart window technology that transforms any glass facade into a noise-cancelling system, offering up to 90% reduction against the outdoor noise. The smart facade can sense, filter and amplify sounds based on user preferences, building a customized indoor environment for homes and offices. At DeNoize, you will work on cutting-edge technologies together with a bunch of passionate engineers, entrepreneurs, and designers, but with a single goal to have a positive impact on our society.

Working at DeNoize means that each member plays a large and important role within a small but close-knit team. The learning process is unique and enhanced by the diversity of the team. We encourage everyone to explore their creative side, and empower our team to do so by giving them the responsibility and authority to make decisions.