

Are you the enthusiastic, talented graduate intern we're looking for?

Can you turn a raw sensor signal into a reliable engineering measurement? Join the Grooming and Beauty Development team to extend an existing experimental platform with a new sensing technology. You will combine mechanical design, sensor integration, signal processing and data analysis to create a measurement solution that is reliable, repeatable and suitable for engineering decision-making.

Your Responsibilities

As an intern, you will:

- Take ownership of the assignment, including planning, design, experimentation and communication of results.
- Develop and evaluate concepts for robust mechanical sensor integration.
- Design mechanical components and fixtures for the measurement setup.
- Acquire and analyse sensor data under representative conditions.
- Investigate noise, variation, repeatability and measurement uncertainty.
- Develop algorithms that convert raw sensor signals into meaningful engineering parameters.
- Correlate the new measurements with other available measurement sources.
- Validate the performance of the integrated measurement system.
- Contribute to further mechanical and functional improvements of the experimental platform.

Key Deliverables

- Validated sensor integration concept and mechanical design.
- Technical documentation and, where applicable, CAD models or drawings.
- Working data-acquisition and data-processing workflow.
- Algorithms that translate raw sensor data into engineering metrics.
- Assessment of robustness, uncertainty, accuracy and repeatability.
- Validation experiments and recommendations for further development.
- Final report and presentation to stakeholders.

Your background

We prefer students who can start immediately and commit to at least six months, although exact dates are flexible. To succeed in this role, you should be pursuing a master's degree in mechanical engineering, mechatronics, measurement and instrumentation, applied physics, robotics, or a similar field. Additionally, you should

bring:

- Fluency in English (written and verbal).
- Interest in mechanical design, sensors, measurement systems and experimentation.
- Experience with CAD, Python, MATLAB, LabVIEW, embedded systems or sensor technology is a plus.
- Practical problem-solving skills and a hands-on mentality.
- Team player with a structured and result-driven approach.

PHILIPS

You Will Be Part Of

In Drachten you'll find two of the largest innovation sites of Philips globally. With colleagues from over 35 different nationalities, it is an inspiring international environment for a young talented intern. At Philips Drachten, consumer-product developers work together to create innovative solutions to real-world problems.

Our Offer

Philips Drachten could be the start of a promising career, with opportunities to develop yourself locally or internationally in different parts of our company. At Philips, you contribute to activities that have a positive impact on people around the world. You will also:

- Strengthen your capabilities and knowledge.
- Be guided by a team of experienced professionals.
- Receive an internship allowance.
- Expand your professional network.

If you recognize yourself in this profile and would like to take on this challenge, we invite you to apply!

For questions about the internship, please contact:

Arno Kroezen

Function Development Engineer