

»Maybe tomorrow housework becomes a game.«

Christina

Supply Chain Qualification



Tomorrow is our home.

Start swiftly and grow fast at BSH Home Appliances Group: As a leading manufacturer of home appliances and solutions, we move things forward to make people's lives easier. With our global brands Bosch, Siemens, Gaggenau and Neff as well as our local brands, there is a world of opportunities for you to discover. We encourage people to develop their potential and never stop learning. After all, we believe that great work is the result of doing what you love. Join us now and give your career a home.

Master Thesis–Camera & ISP Optimization for AI Classification (m/f/d)

BSH Hausgeräte GmbH | Job-ID: 76047658 | Full time / Part time |
ab Oktober 2026

Munich, Traunreut

YOUR RESPONSIBILITIES

Are you well-versed in theory and now looking for practical experience in a dynamic company? Then use your talent and expertise to help us with the following tasks

- / Hardware Setup & Baseline: Familiarize yourself with developer boards and cameras to establish a reproducible BSH test environment based on BSH input
- / Camera & ISP Analysis: Systematically analyze key camera and ISP settings and their sensitivity on pre-trained AI models
- / Trade-off Evaluation: Assess the impact and relationships between ISP configurations, image compression and resulting AI classification accuracy
- / Automated Optimization: Develop an automated framework to identify optimized parameter profiles for typical home appliance operating scenarios
- / Benchmarking & Guidelines: Compare performance gains against default camera configs & document practical integration guidelines for series development

YOUR BENEFITS

- / Company-related processing of current topics
- / Personal contact person
- / Appreciative working atmosphere

YOUR PROFILE

- / Advanced master's studies in Electrical Engineering, Computer Science, Physics, or a comparable technical field
- / Strong interest or first experience in image processing, computer vision and embedded systems
- / Programming skills in Python and experience with OpenCV and ML libraries (PyTorch or TensorFlow)
- / German language is a plus

FURTHER INFORMATION

Please visit bsh-group.com/career. We would love to welcome you in our team!

Find a new home for your professional ambitions:

Apply online now

BSH IS AN EQUAL OPPORTUNITY EMPLOYER

At BSH, diversity and inclusion are core values that shape our corporate culture. We appreciate everyone's uniqueness and see the diversity of our employees as key to our success. Regardless of gender, origin, religion, sexual orientation, disability, or age, we wholeheartedly welcome every single application.

Home appliances under the brands:



BOSCH

SIEMENS

GAGGENAU

