

# Bachelor Project & Thesis

## Machine Learning for computer vision



### WHAT DOES 8TREE DO?

8tree develops, produces and sells 3D scanners. Our most successful product is dentCHECK: a handheld system used to measure damage on aircraft. Our customers are airlines and maintenance companies at airports all over the world. We are a German-American startup with sister company in California.

We are seeking a driven and innovative student to join our team and take on the challenge of training a neural network for the classification of fastener heads. The successful candidate will be responsible for applying their skills in data analysis to create a neural network which robustly classifies the given images.

### RESPONSIBILITIES

- ✓ Cleaning and preparing our existing training and test data.
- ✓ Training neural networks on diverse applications areas to prevent outliers.
- ✓ Integrating the completed solution into our software.
- ✓ Presenting findings to the wider development team.

### RELEVANT SKILLS

- ✓ Enrolled in a degree in Computer Science or a related field.
- ✓ Experience with machine learning is essential.
- ✓ Proficient in C++ or another object-oriented programming language.
- ✓ Basic understanding of computer vision / image processing will be useful.
- ✓ Strong analytical and problem-solving skills.
- ✓ Capable of working independently.

### BENEFITS

- ✓ Competitive compensation from €700 to €1000 per month depending on prior experience.
- ✓ Flexible work hours that accommodate your schedule.
- ✓ Opportunities for professional development through workshops and training sessions.
- ✓ A supportive and collaborative work environment that lets you play to your strengths.
- ✓ Possibility of a working student position during your master.

This is an exciting opportunity for a motivated individual to gain hands-on experience in machine learning and image processing while contributing to a project that has practical applications. We offer a flexible and collaborative work environment, competitive compensation, and the opportunity to work alongside experienced engineers.

If you are a self-starter with a passion for developing practical solutions and are enthusiastic about applying machine learning to cutting edge industrial tools, we encourage you to apply for this position.

### CURIOUS?

Then we look forward to receiving your resume with a short cover letter to **Erik Klaas**. If you have any questions about the position, whether in terms of content or organization, please feel free to contact us at any time.

Send application to: [jobs@8-tree.com](mailto:jobs@8-tree.com) | +49 7531 / 891 4990

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