



The TUM Chair for Computer Aided Medical Procedures (CAMP) and Dynamify GmbH are looking for interested and qualified students to conduct a

Interdisciplinary Project (IDP)

on the topic

3D Body Mapping for Skin Lesion Detection

What is the target?

Development of software algorithms to generate a 3D representation of a human body in HD image quality using a structured light 3D-RGB camera (based on an existing software library) which can be used to automatically detect skin lesions

What are your tasks?

- Research on 3D point cloud registration and image interpolation
- Thoroughly work your way into the existing point cloud acquisition library
- Extension of the library for high resolution images
- Development and implementation of the body mapping
- Presentation of your work and documentation

Which skills do you need?

- Knowledge of image processing algorithms and multiple view geometry
- Practical experience in SW development with C/C++
- Independent and structured way of working, solution-oriented approach
- Flexibility to work partially at the CAMP chair and the Dynamify office (both in Garching-Forschungszentrum)

About Dynamify

Dynamify develops and markets medical imaging devices with a strong focus on usability and assistance for the doctors in their business model to create value. The management works closely with the CAMP chair in a joint research project to bring digital dermatoscopy to the next level.

If you like creating and developing fascinating new technology and are fond of working in a smart and passionate team, then we are looking forward to your application. Please indicate your possible start.

Send your application directly to: **Diana Mateus, mateus@in.tum.de**

For more information about Dynamify please refer to <http://www.dynamify.de>