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| **Press Release** | **13 Jan 2017** |
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Photogrammetry Application in Brenner Base Tunnel wins Allied Vision’s Case Study Competition

**Project from Montan University in Leoben prevails**

Stadtroda, 13 January 2017 – Allied Vision’s worldwide Case Study Competition concluded in December with the selection of one winner chosen from all submitted applications. Montanuniversität in Leoben, Austria won for its project, developed by the Institute for Subsurface Engineering in collaboration with Geodata GmbH, also of Leoben, dealing with the development of a camera system for boring machines used in tunnel construction projects. This project has been realized in cooperation with Allied Vision’s distribution partner and imaging technology provider Stemmer Imaging in Puchheim, Germany. The system is currently in use in the construction of the Brenner Base Tunnel. Representing the entire team, Dipl.-Ing. Robert Wenighofer, accepted Allied Vision’s award and congratulations.

Numerous international customers from myriad industries answered the call from Allied Vision, taking the opportunity to submit their own applications for consideration. Prerequisite for participation was that Allied Vision cameras be an important component of the described solution. Along with topicality and uniqueness, applications were evaluated according to how critical Allied Vision’s cameras were to the project’s success and/or achievement of project goals.

**Prosilica GT2000 an important part of the solution**After all criteria were evaluated, the Institute for Subsurface Engineering of Montan University in Leoben stood out. Their team, headed by Robert Wenighofer, developed a camera system using Allied Vision’s Prosilica GT2000 GigE Vision camera with a 2.2 megapixel CMOS sensor. The camera is robust and well suited for use in extreme environmental conditions.

Using the camera in the head of the tunnel drilling machine, images of the working surface are generated from clearly defined angles. Based upon these recordings, a 3D image is reconstructed, using photogrammetric procedures, that is then used to analyze the rock’s composition. Mineral composition, spatial position of stratifications, and depth of eruptions can thus be determined. All of this valuable information enables an assessment of the structural analysis and verification of the accepted geological model’s correctness, ensuring continuous tunnel boring free from disruption.

**Allied Vision company profile**

For over 25 years, Allied Vision has been helping people to see the bigger picture. Allied Vision supplies camera technology and image capture solutions for industrial inspection, science, medicine, traffic monitoring and many more application areas in digital imaging. With a deep understanding of customers’ needs, Allied Vision finds individual solutions for every application, a practice which has made Allied Vision one of the leading camera manufacturers worldwide in the machine vision market. The company has eight locations in Germany, Canada, the United States, Singapore, China, France, and the UK, and is represented by a network of distribution partners in over 30 countries. [www.alliedvision.com](http://www.alliedvision.com)

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