Pico satellite activities at the University of Wuerzburg

Abstract

Modern miniaturization techniques enable realization of satellites at continuously smaller masses, leading in particular to significantly decreased costs for a launch. Thus, fully functional satellites performing meaningful experiments have been realized at a mass of less than 1 kg within the UWE-series (***U***niversity ***W***ürzburg's ***E***xperimental satellites). Essential features already implemented were for UWE-1 (launched 2005) the telecommunication based on Internet Protocols, while UWE-2 (launched 2009) addressed attitude determination techniques within the 1 kg frame. The third satellite of the UWE series is currently under development. The presentation will give an overview of small satellite activities at the University of Wuerzburg

Profile

Marco Schmidt studied computer science at the University of Würzburg and received his diploma in May 2006. He started his PhD-studies at the Department of Computer Science VII in June 2006. Currently he is working as research assistant focused on small satellites. His research interests include ground station networks, small satellite development and distributed space systems.