

Technische Universität Ilmenau  
PF 10 05 65  
98684 Ilmenau

Contact:  
Dr. Mirko Kirschowski  
Administrative Manager  
Intl. Graduate School on Mobile Communications  
Phone +49 3677 69-1148  
FAX: +49 3677 69-1614  
E-Mail: [gs-girls.camp@tu-ilmenau.de](mailto:gs-girls.camp@tu-ilmenau.de)  
Web: [www.gs-mobicom.de/girls-camp](http://www.gs-mobicom.de/girls-camp)

# International Quadrocopter Girls Camp

Call for Application

July 26 to August 1, 2010



[www.gs-mobicom.de](http://www.gs-mobicom.de)

*th*  
TECHNISCHE UNIVERSITÄT  
ILMENAU  
*Mobicom*

# International Quadrocopter Girls Camp

## Call for Application

The International Graduate School on Mobile Communications at the Ilmenau University of Technology ([www.gs-mobicom.de](http://www.gs-mobicom.de)) invites school girls and female master students to a workshop on building quadrocopters.

The goal of this workshop on embedded hard- and software systems is to build a complete, working quadrocopter platform under the guidance of experienced staff at the Integrated Communication Systems Lab of the university. The idea is to form pairs of graduate students and school girls (10th grade or higher) working together on one quadrocopter. The workshop consists of a hardware and a software part: The hardware part has a strong focus on assembling a real quadrocopter, based on the well-known "Mikrokopter" platform (see: [www.mikrokopter.de](http://www.mikrokopter.de)). It includes the mechanical construction of the mikrokopter chassis and its skid as well as interconnecting and testing the pre-manufactured subcomponents like the flight-control, remote control receiver, brushless motor controllers, brushless motors as well as the base board.

The software part deals with the deployment and parametrization of the different embedded software components required for operating the quadrocopter. After a successful completion, laboratory and outdoor flight tests will be conducted. Here, the effects of different parameters for the PID controllers are identified and demonstrated.

The prerequisite for participating is a basic feeling for practical work with electronics. Some experience in soldering and RC systems would be beneficial, but is not required.

Prospective participants should complete, sign and send the application form per mail to

[gs-girls.camp@tu-ilmenau.de](mailto:gs-girls.camp@tu-ilmenau.de)

before June 30, 2010. The application form can be found on [www.gs-mobicom.de/girls-camp](http://www.gs-mobicom.de/girls-camp). Participants will be selected based on their background, working area and English skills. Notification of acceptance will be sent out on July 5, 2010.

### Cost and Financial Support

Participation in the International Quadrocopter Girls Camp is based on applications and is free for successful applicants. Support includes accommodation and an allowance to travel cost.

### Important Dates

Application Deadline:

June 30, 2010

Acceptance Notification:

July 5, 2010

International Quadrocopter Girls Camp:

July 26 to August 1, 2010

The International Quadrocopter Girls Camp is organized by the International Graduate School on Mobile Communications of the Ilmenau University of Technology. For more information on the School see [www.gs-mobicom.de](http://www.gs-mobicom.de).