

# ZHENFEI YANG

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## EDUCATION

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- Hong Kong University of Science and Technology** *Sep. 2014-Aug. 2016*  
MPhil. in Electronic and Computer Engineering, Department of ECE  
Supervisor: Shaojie Shen
- Harbin Institute of Technology** *Sep. 2010-Aug. 2014*  
BEng. in Computer Science and Technology, Honors School  
GPA – 87.0/100 Rank 3/18

## PUBLICATIONS

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- Self-calibrating Multi-camera Visual-Inertial Fusion for Autonomous MAVs**  
*Intl. Conf. on Intell. Robots and Syst. (IROS)* *Oct. 2016*  
· **Zhenfei Yang**, Tianbo Liu, and Shaojie Shen
- Monocular Visual-Inertial State Estimation with Online Initialization and Camera-IMU Extrinsic Calibration**  
*Trans. on Autom. Sci. and Engineering (T-ASE)* *Apr. 2016*  
· **Zhenfei Yang** and Shaojie Shen
- Monocular Visual-Inertial Fusion with Online Initialization and Camera-IMU Calibration**  
*Intl. Sym. on Safty, Security, and Rescue Robotics (SSRR)* *Oct. 2015*  
· **Zhenfei Yang** and Shaojie Shen

## AWARDS

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- First Prize, International Aerial Robotics Competition (IARC) *Nov. 2015*
- Best Theoretical Paper Award, Intl. Sym. on Safty, Security, and Rescue Robotics (SSRR) *Oct. 2015*
- Silver Prize, ACM/ICPC Asia regional Changchun onsite *Oct. 2012*
- Bronze Prize, ACM/ICPC Asia regional Jinhua onsite *Oct. 2012*

## WORKING EXPERIENCE

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- DJI Technology** *Feb. 2014-Aug. 2014*  
Visual Computing Group  
Project: Structure from Motion. Taking the video captured by a quadrotor as input, reconstruct the observed scene.  
Main technique: Both the sparse landmarks and the poses of the quadrotor are estimated using feature-based sparse bundle adjustment. Given the accurate pose estimation, the sparse point cloud is densified through propagating the feature correspondences from texture-rich regions to texture-less regions.
- Microsoft Research Asia** *Jun. 2013-Sep. 2013*  
Internet Graphics Group  
Project: TextFlow. After mining topics of bing news, use modified Stacked Graph to visualize the development progress.  
Main work: Optimize the layout algorithm of the visualization module and redesign the structure for further research.