Ali Anwar

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EDUCATION

HARBIN INST. OF TECH.
PhD in Electrical Engineering
Expected Dec. 2018 | Harbin, CN

ME in Electrical Engineering
Sept. 2013 - Jul. 2015 | Harbin, CN
Concentration. in Control Sc. & Engg.
School of Astronautics

NATIONAL UNIV. OF SCIENCES & TECHNOLOGY
BE in Electronics Engineering
Nov. 2008 - Jul. 2012 | Islamabad, Pakistan
School of EE & CS

LINKS

Github:// **denoza**
LinkedIn:// **alianwar1**
ResearchGate:// **ali_anwar9**

SKILLS

PROGRAMMING
Over 5000 lines:
C++ • Matlab • LaTeX
Over 1000 lines:
C • Python • Assembly • Ansible
Familiar:
Linux • GCC • CMake • SHELL
Libraries
OpenCV • Cafe • PCL • FLTK • ViSP

LANGUAGES
Fluency
English • Urdu
Limited Working Proficiency
Mandarin • German

HARDWARE
Efort Industrial Manipulator • Basler Industrial Cameras • Microsoft Kinect

WeChat

EXPERIENCE

TRADEKEY (PVT). LTD | Project Management Executive
Jan. 2013 - Sept. 2013 | Karachi, Pakistan

- JD included Strategic Plans, Quarterly/Bi-Annual/Annual Closeouts, Support in QMS Audit, Monitoring and Control for VIP-SD Team, Standards and Documentation, Training and Development Plan for VIP-SD Associates, Process and Functional Development

RESEARCH

RESEARCH INST. OF INTELLIGENT SYSTEMS AND CONTROL, HABIN INST. OF TECH. | PhD Scholar
Sept. 2015 – Present | Harbin, CN
Worked in the research domain focused upon the visual servo control of industrial robots. Primary impact areas include computer programming of control algorithms and computer vision, design of state of the art robotics perception algorithms, and study of new ways to optimize the performance of visual servo control.

HARBIN INST. OF TECH. AEROSPACE CENTER | Post-Graduate Researcher
Sept. 2013 – Jul. 2015 | Harbin, CN
Investigated the nonlinearities affecting the system's control signal at the input. All of the major nonlinearities were covered including, backlash, dead-zone and input saturation. Their effects upon the attitude dynamics of rigid spacecrafts were studied and nonlinear control algorithms were designed for their mitigation.

SELECTED PUBLICATIONS

- Anwar. A, Lin. W et al. "Recognition and Pose Estimation of auto-parts for a spray painting robot", IEEE Transactions of Industrial Informatics (Submitted)
- Anwar. A, Hu. Q. "Adaptive Dynamic Surface Attitude Tracking Control of Spacecraft with Input Nonlinearities and External Disturbances", Aerospace Science and Technology (Submitted)
- Anwar. A, Lin. W et al. "Remote Radio Unit Power Port Tracking using Computer Vision", IECON 2017 - 43rd Annual Conference of the IEEE Industrial Electronics Society, Beijing, 2017
- Anwar. A, Shao. X et al. "Adaptive backstepping control of uncertain nonlinear systems with input backlash", 2016 IEEE Chinese Guidance, Navigation and Control Conference (CGNCC), Institute of Electrical and Electronics Engineers (IEEE), Nanjing, 2016

AWARDS

2015	Fully Funded PhD Scholarship	Harbin Inst. of Tech. (HIT)
2015	Top International Student	School of Astronautics, HIT
2013	Fully Funded PG Scholarship	Harbin Inst. of Tech.
2008	National ICT Scholar	National University of Sciences & Technology

CERTIFICATIONS

- IELTS: 8.0 / 9.0
- Certified Associate of PLC and SCADA
- 2017 Summer School on Intelligent Robotics, Harbin Inst. of Tech.