

# Omkar C. Halbe

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<b>EDUCATION</b>	CORNELL UNIVERSITY, College of Engineering, Ithaca, NY <b>Master of Engineering degree in Systems Engineering:</b> May 2009 (Expected)  MUMBAI UNIVERSITY, Veermata Jijabai Technological Institute (VJTI), Mumbai, India <b>Bachelor of Technology degree in Electronics Engineering:</b> May 2008 Cumulative G.P.A: 7.2/10
<b>RELEVANT COURSES</b>	Applied Systems Engineering • Systems Architecture, Behavior & Optimization • Project Management Electrical Power Systems • Feedback Control Systems • Digital System Design • Future Energy Systems
<b>RELATED EXPERIENCE</b>	CONTINENTAL CORP., Automotive Systems Division, Lindau, Germany June 2008 – July 2008 (formerly Siemens VDO Automotive) <b>Engineering Support Team Intern</b> <ul style="list-style-type: none"><li>• Worked in a team of eight electrical, hardware and software engineers to successfully install and test prototype electronic Automatic Cruise Control systems in a Volkswagen Golf and a Mercedes truck.</li><li>• Performed periodical tests on Laser sensor components and driver assistance system circuitry for error diagnosis and damage. Also supported the software development team on electronic circuit debugging.</li></ul> BECKHOFF AUTOMATION, Pune, India December 2007 – January 2008 <b>Automation Systems Intern</b> <ul style="list-style-type: none"><li>• Worked in a team of four application development engineers to configure PLCs, embedded &amp; industrial PCs and drives over fieldbuses EtherCAT, CANOpen &amp; DeviceNet for ongoing automation projects.</li><li>• Successfully tested and implemented remote monitoring and control using Beckhoff TwinCAT System, Visual C++, Visual Basic and Lab View over TCP/IP and ADS protocols.</li><li>• Actively marketed viable automation products for small scale industries to improve productivity through the Beckhoff Team at ELECRAMA 2008 International Power &amp; Industrial Electronics Exhibition.</li></ul> IMA AUTOMATION GMBH, Amberg, Germany May 2007 – July 2007 <b>Automation and Manufacturing Systems Intern</b> <ul style="list-style-type: none"><li>• Designed and implemented new algorithms for assembly of small and miniature parts using PLCs, PC-based control and embedded IEC 61131-3 softwares.</li><li>• Interfaced and controlled pneumatic arms for the assembly process accompanied with manual and emergency control mechanisms.</li></ul>
<b>ACADEMIC PROJECTS</b>	<b>Master's Project: Innovative fuel saving solutions for hybrid refrigeration truck-trailer units</b> Working with five systems engg. students and Carrier Corp. R&D Team for a complex system design and integration of innovative and feasible solutions such as solar panels, efficient batteries, advance sensors and intelligent control algorithms with subsystems of existing Carrier Transicold mobile refrigeration units. <b>Bachelor's Project: 1:4 Wireless EPABX System Prototype</b> September 2007 – May 2008 Worked in team project sponsored by NCC Telecom, Mumbai involving 12 final year students, for the design and implementation of a 1:4 Wireless Electronic Private Automatic Branch Exchange in the license exempt ISM Band to provide a demanding wireless service and good spectrum efficiency in a high user density environment. <b>Junior Electronics Workshop Projects: Autonomous Robotics</b> Fall 2006 & Fall 2007 Implemented computer controlled and microcontroller – based autonomous robot circuits, chassis and algorithms for line following and obstacle detection in a team of 4 students.
<b>HONORS/ AWARDS</b>	JRD Tata Engineering Academic Scholarship (2005-06) • 14 <sup>th</sup> Merit Rank, Mumbai Division Higher Secondary School Examination (2004-05) • Best Outgoing Student of Secondary School (2002-03)
<b>SOFTWARES, HARDWARE &amp; LANGUAGES</b>	<ul style="list-style-type: none"><li>• C/C++, MATLAB, Beckhoff TwinCAT PLC Control, Microcontroller Development Tools, MS Excel</li><li>• Exposure to CORE, VB, VC++ and Step 7 by Siemens, Lotus Notes</li><li>• Programmable Logic Controllers, Industrial/Embedded PCs, Bus Controllers, Microcontrollers</li><li>• English, German, Hindi and Marathi</li></ul>
<b>ACTIVITIES</b>	President, International Council on Systems Engineering (INCOSE) – Cornell Chapter • Intermediate German Language Student, Goethe Institute Mumbai • Volunteer, VJTI Blood Donation Camps • Right-back, Cornell Graduate Engineering Soccer & VJTI Soccer Team • Ex-Captain, VJTI Badminton Team