

Matthew J Kupilik

CONTACT INFORMATION	11760 West 73rd Ave Arvada, CO 80005	<i>Cell:</i> (303) 881-9915 <i>E-mail:</i> mkupilik@mines.edu
EDUCATION	Colorado School of Mines , Golden, Colorado USA M.S., Electrical Engineering, Summer 2008 <ul style="list-style-type: none">• Thesis Topic: Scale Factor Estimation and Propagation in Monocular Vision Based Navigation• Advisors: Dr. Tyrone Vincent and Dr. Bill Hoff B.S., Engineering Systems-Electrical Specialty, May 2001	
ACADEMIC EXPERIENCE	Colorado School of Mines , Golden, Colorado USA <i>NSF Graduate Teaching Fellow in GK-12 Education</i> Fall 2008 to Present North Middle School, Aurora, CO <ul style="list-style-type: none">• Responsibilities include developing and implementing age appropriate engineering activities• Includes classroom work with sixth grade students <i>Graduate Research Assistant</i> Spring 2007 to Summer 2008 Video Aided Navigation for an Unmanned Aerial Vehicle <ul style="list-style-type: none">• Funded under a US Air Force project in partnership with Perceptek Robotics.• Individual responsibilities include development of a numerical optimization algorithm for combining multiple sensors including accelerometers, rate gyroscopes and a camera.• Includes M.S. research and course work.	
PROFESSIONAL EXPERIENCE	United States Army <i>Assistant S-3, 59th Signal BN, Fort Richardson, Alaska</i> October 2003 to November 2005 <ul style="list-style-type: none">• Integrated new units into the Fort Richardson network and developed tactical network plans for unit deployments• Maintained the Fort Richardson server facility, main telephone switch, and information technology support services <i>Platoon Leader 21st Signal Company Fort Richardson, Alaska</i> April 2002 to October 2003 <ul style="list-style-type: none">• Provided a mobile UHF based network for voice and data communications. Directly responsible for 40 people and \$20,000,000 in equipment	
ENGINEERING SKILLS	Programming: C++, Java, OpenGL, MATLAB, L ^A T _E X Coursework: Advanced Computer Graphics, Computational Geometry, Computer Vision, Multidimensional Signal Processing, Estimation and Kalman Filtering, Numerical Methods, Probabilistic Algorithms, Advanced Control Theory & Design	
HOBBIES	Rock Climbing, Skiing, Mountain Biking	
ADDITIONAL	Secret Security Clearance, Fluent in Swedish References, Transcripts and Additional Information available upon request.	