

## Nicholas Christopher Bell, E.I.T.

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<b>Objective</b>	Use my knowledge of material properties and processing to contribute to technological advancements in a dynamic, cutting-edge environment		
<b>Education</b>	<b>University of Central Florida</b> , Orlando, FL Started graduate coursework in Materials Science and Engineering  <b>Virginia Polytechnic Institute and State University</b> , Blacksburg, VA B.S. Materials Science and Engineering, <i>cum laude</i> , May 2005 <ul style="list-style-type: none"><li>• <b>MSE Engineering Communications Program:</b> Written and oral technical communication, teamwork, ethics, and interpersonal communication</li><li>• <b>MSE Senior Design Project:</b> Characterization of the Effect of Film Thickness on the Electrochemical Impedance of Nanoporous Gold</li></ul>		
<b>Experience</b>	<b>M Cubed Technologies Inc.</b> , Newark, DE <i>Process Engineer</i> – Advanced Materials, November 2005 – September 2006 & July 2008 – December 2008 <ul style="list-style-type: none"><li>• Wrote procedures describing the manufacturing processes for various Si-SiC composites</li><li>• Trained technicians in infiltration process of SSC, HSC, and RBBC composites</li><li>• Proposed corrective actions to eliminate specific failure modes in the manufacturing process</li><li>• Programmed a Coordinate Measuring Machine (CMM) to measure in-process and final dimensions of RBBC armor products</li><li>• Created databases to link together process information and make data more accessible</li></ul> <b>Ceradyne, Inc.</b> , Costa Mesa, CA <i>Armor Development Engineer</i> – Research and Development, September 2006 – July 2008 <ul style="list-style-type: none"><li>• Planned and executed experiments to determine ballistic limits of various ceramic, metallic, and composite laminate systems</li><li>• Used DOE to analyze and run lap shear experiments for a variety of adhesives and manufacturing variables</li><li>• Worked with production engineers to develop tooling and strategies necessary to transition from coupon design to final product</li><li>• Designed and project managed an armor solution to meet U.S. Army's Long Term Armor Strategy (LTAS) for Tactical Wheeled Vehicles</li><li>• Traveled to witness and test designs as well as to attend short courses (in penetration mechanics and adhesive science) and conferences</li></ul> <b>Nanomaterials Science and Engineering Internship</b> , Rutgers University <i>Participant</i> , June 2004 – August 2004 <ul style="list-style-type: none"><li>• Researched Nanomechanical Mapping of Artificial White Spot Lesions</li><li>• Prepared samples and measured their hardness and modulus using a Hysitron Triboindenter</li><li>• Presented results to biomedical and engineering faculty as part of the Summer Student Research Symposium</li></ul> <b>ITT Industries – Nightvision Co-op</b> , Roanoke, Virginia <i>Manufacturing Engineer</i> , January 2002 – August 2003 <ul style="list-style-type: none"><li>• Performed failure analysis testing on ceramics and metals (with aid of scanning electron microscope) and maintained a database of all results for weekly meetings</li><li>• Co-authored two major internal reports: <i>Development of Hybrid Photodetectors Using Single Crystal III-V Photocathodes</i> and <i>Hybrid APD for Single Visible Photon Imaging</i></li></ul>		
<b>Computer Skills</b>	AutoCAD 2007 MATLAB	Microsoft Office SolidWorks 2007	Stat-Ease CES 4.0