

Jon R. Torrey

CONTACT INFORMATION	Autonomous Robotics & Perception Laboratory George Washington University, Washington, D.C.	mobile: +01 301 704 0666 e-mail: contact@jontorrey.com
EDUCATION	George Washington University , Washington, D.C. <i>M.Sci. Mechanical Engineering</i> <i>B.Sci. Mechanical Engineering</i>	Sept. 2010 – Dec. 2012 Sept. 2005 – May 2010
PROFESSIONAL EXPERIENCE	George Washington University , Washington, D.C. <i>Post-Grad Researcher</i> <ul style="list-style-type: none">• Led design and management of mechanical assemblies, fabricated parts, dealt with outside vendors for products that could not be manufactured in house, tested and integrated final robotic subsystems. Subsystems are related to the Parkour Cars project and miniature actuation solutions.• Led design, fabrication, and integration of mechanical subsystems related to the Autonomous Lexus project.• Managed multiple projects procurement supply chains.• Built lab infrastructure including set up of Dense Motion Capture lab and Autonomous Car lab. <i>Dean's Fellow</i> <ul style="list-style-type: none">• Leveraged relationships with foreign institutions to create robust, complete study abroad programs for undergraduate engineers with excellent support at GW and the foreign institution.• Expanded first two partnerships at University College Dublin and Korea University, 37% and 18% respectively, in both population and scope.• Create partnerships at Bogaziçi University and University of Nicosia.• Maintained study abroad participation despite nearly 25% drop in eligible population.• Led logistics backbone team for the 2011 New Student Getaway. Orbital Science Corporation , Greenbelt, MD <i>Intern</i> <ul style="list-style-type: none">• Liaised between the design, QA, integration, and fabrication to effectively prepare the MULE carrier for flight on STS 125.• Responsible for traceability of flight material and hardware.• Integrated various GSE and flight hardware and systems, specific to M.U.L.E. Carrier.• Led exploratory testing on a subsystem, recommended changes, and integrated changes into the final flight configuration.	Jan. 2013 – Present Sept. 2010 – Aug. 2012 May 2008 – Sept. 2008
RESEARCH & TEACHING EXPERIENCE	George Washington University , Washington, D.C. <i>Adjunct Professor</i> <ul style="list-style-type: none">• Lectured on CAD and CAE topics ranging from design intent, beginner, intermediate, and advanced modeling, FEA techniques, and DFMA.• Lectured for eight credit hours comprised of 90+ students. <i>Graduate Teaching Assistant</i> <ul style="list-style-type: none">• Led lab sections for undergraduate courses in introduction to mechanical engineering.• Average class size of 20. <i>Research Assistant</i> <ul style="list-style-type: none">• Investigated nanoscale drug delivery via cold plasma treatment, specific to fibroblast cells. (2010)• Investigated controlling synthesis of carbon nanostructures by plasma means in arc discharge. Published APS, Abstract ID: BAPS.2009.DPP.BP8.109 (2009) National Institute of Standards and Technology , Gaithersburg, MD <i>Laboratory Technician</i> <ul style="list-style-type: none">• Researched atmospheric aerosols in relation to single scattering albedo. (2006)• Researched the creation and use of silica sol gels in relation to aerosol insulin. (2005)	Jan. 2013 – May 2013, Jan. 2014 – May 2014 Sept. 2010 – May 2011, Sept. 2012 – Dec. 2012 May 2009 – Oct. 2009, May 2010 – Aug. 2010 May 2005 – Aug. 2005, May 2006 – Aug. 2006
SKILLS & EXPERTISE	ProE/Creo, Solidworks, Sheetmetal, ANSYS Workbench and CFX, COMSOL, MATLAB, L ^A T _E X 2 _ε , Microsoft Office Suite, ISO 9001, Metal and composite manufacture, Basic CNC manufacturing	
HONOURS AND AWARDS	Clinton Global Initiative University 2012 Commitment Challenge, Panda Cycles - Winner Boy Scouts of America - Eagle Scout Award, 2005	