

Vincent A. Crossley

NEW YORK, NY

CELL 401.837.9473 **EMAIL** vcrossley@gmail.com **WEBSITE** vcrossley.com

Education

Carnegie Mellon University, Pittsburgh, PA

Master of Science in Mechanical Engineering, December 2006
Cumulative GPA: 3.58/4.0

Lehigh University, Bethlehem, PA

Bachelor of Science in Mechanical Engineering, May 2005
Bachelor of Arts in Design, December 2005
Cumulative GPA: 3.18/4.0 Last Four Semesters GPA: 3.45/4.0

Relevant Experience

IAC / MINDSPARK PRODUCT MANAGER, WHITE PLAINS, NY 2008–PRESENT

Defining the roadmap for toolbar web products with 25MM active users. Continuously testing and optimizing to improve retention, revenue, and user experience. Working across several functional teams to assure that the product integrity and vision are maintained.

OFFMETROPOLIS LLC CO-FOUNDER / CEO, NEW YORK, NY 2007–PRESENT

Formed an online media company that is headlined by offManhattan.com, an eco-friendly online travel magazine featuring car-free getaways outside of Manhattan. Oversee fifteen staff writers and lead marketing, advertising, web development and design. The site is profitable, receives 30,000 visits a month, and has been featured in many popular media outlets including NBC's *Today in New York*, *Gotham Magazine*, *Thrillist*, and *The Huffington Post*.

MEGATECH INTERNATIONAL PRODUCT MANAGER / LEAD ENGINEER, NORTH BERGEN, NJ 2007–2008

Led a team of engineers in the US and China in designing radio-controlled vehicles. Developed valuable experience manufacturing consumer products at an international company. Managed several products through the entire product development life cycle and optimized manufacturing and performance of products already in production. Implemented new procedures and structure to improve productivity in development and manufacturing.

IROBOT CORPORATION MECHANICAL ENGINEERING INTERN—HOME ROBOTS, BURLINGTON, MA 2006

Tested and refined design of Scooba floor-washing robot at the leading consumer robotics company. Solved quality assurance problems in manufacturing that were affecting the performance of a model already in production. Saved the company money by reducing number of returned units by 15%.

HASBRO, INC. MECHANICAL ENGINEERING INTERN—ROBOTICS DIVISION, PAWTUCKET, RI 2006

Researched, designed, and prototyped natural-looking multi-legged robot gaits. Innovated new transmission design and cost-effective mechanical solutions that led to the development of future products in the Hasbro robotic toys line.

NUMARK INDUSTRIES / ALESIS INDUSTRIAL DESIGN INTERN, CUMBERLAND, RI 2004

Completed projects involving product and graphic design at a leading DJ and pro-audio equipment company. Assisted with designing new products, graphics, renderings, and box art, and refined industrial design skills.

Selected Graduate Projects

GRADUATE DESIGN PROJECT IROBOT / CARNEGIE MELLON UNIVERSITY 2006

Independent research and design project to study the current market, then identify and propose several new accessories for the iRobot PackBot, an unmanned ground vehicle for government and military applications. Focused mainly on solutions for explosive ordinance disposal.

DARPA GRAND CHALLENGE CARNEGIE MELLON UNIVERSITY 2006

Contributed mechanical and structural design skills to a team competing in the 2007 Urban Challenge, which involved the design of a vehicle capable of autonomously navigating a 60-mile course in an urban setting. The team ultimately won the competition and collected the \$2 million award.

ADVANCED MOBILE ROBOTIC DEVELOPMENT CARNEGIE MELLON UNIVERSITY 2006

Played a fundamental role in the NASA-funded Lunar Rover Initiative team, researching and developing a lunar rover to pioneer polar surface operations by descending into the Shackleton Crater and drilling for ice. Designed and built a functional prototype and completed testing in extreme terrain.

MICRO / NANO ROBOTICS COURSE CARNEGIE MELLON UNIVERSITY 2006

Studied the latest advances in and developed new micro and nano robots. Spearheaded the design of an unprecedented type of deformable spherical rolling robot.

GRADUATE-LEVEL INTEGRATED PRODUCT DEVELOPMENT ST. LUKE'S HOSPITAL / LEHIGH UNIVERSITY 2005

Developed a prototype for a mobile bedside entertainment / therapy unit for pediatric patients in hospitals for St. Luke's Hospital and JACO Inc. Focused on market research, development, manufacturing, marketing / sales / distribution, and financial planning.

Selected Undergraduate Projects

PRIZE-WINNING MECHANICAL ENGINEERING SENIOR DESIGN PROJECT LEHIGH UNIVERSITY 2005

Independently designed and constructed a truck for the Micro-Truck Baja Competition held at the 2005 SAE World Congress in Detroit. Won prize for “Best Design” in the Unlimited Class. Applied mechatronics knowledge to build and program a small-scale truck to react to changes in an off-road track by incorporating a micro-controller and accelerometers for feedback.

INTEGRATED PRODUCT DEVELOPMENT INGERSOLL-RAND / LEHIGH UNIVERSITY 2004

Developed a more efficient electrical replacement to Ingersoll-Rand’s air-powered double-diaphragm pump. Also created a web portal for communication, file transfer, and scheduling within team of five students and our advisors. Analyzed the economic feasibility, formulated a production plan, built a functional prototype, and in the end strongly advised our sponsor not to enter this market.

LEHIGH FORMULA SAE LEHIGH UNIVERSITY 2001–2003

Designed and built a formula race car to compete in an intercollegiate competition held annually in Michigan. As a member of a spin-off team, investigated and created an unconventional new prototype vehicle using primarily composites and foam instead of steel.

Additional Leadership Experience

TEACHING ASSISTANT LEHIGH UNIVERSITY FALL 2005

Generated competitions for Mobile Robotics courses and to facilitate the research of the Autonomous Intelligent Systems group. Designed and built a competition featuring infrared communication and positioning. Instructed students in the senior-level Mobile Robotics lab.

TEACHING ASSISTANT LEHIGH UNIVERSITY SPRING 2005

Taught freshmen in an introductory robotics and programming lab. Educated students in hands-on applications of mechanical, electrical, and computer engineering skills.

LEHIGH SAILING TEAM FOUNDER, PRESIDENT, COACH, WEBMASTER, LEHIGH UNIVERSITY 2003–2005

Re-founded this former Lehigh sport in fall of 2003 and led the team until spring of 2005. Grew the team to more than thirty members, coordinated and led practices for both rookie and seasoned racers, competed in weekend regattas at other universities, and developed the team website.

Selected Courses

Manufacturing

Computer Aided Design

Computer Aided Engineering

Mech. Engineering Design I & II

Human-Robot Interaction

Advanced Mobile Robot Development

Mechatronics

Micro / Nano Robotics

Product Design

Sketching & Rendering for ID

Quant. Methods for Product Des.

Ergonomics

Skills

Languages—Native Speaker of French, Conversant in Spanish

Computer—Mac OS X, Windows, *nix, SolidWorks, Pro/E, I-DEAS, AutoCAD, Ansys, MATLAB, Maple, Mathematica, C++, LabView, Adobe (Photoshop, Illustrator, InDesign, Dreamweaver, Fireworks, Flash), QuarkXpress, iWork, MS Office

Additional—Passed Fundamentals of Engineering Exam, April 16, 2005. Eligible for Professional Engineer (PE) certification in 2010.

Honors

Merit Scholarship—Department of Mechanical Engineering, Carnegie Mellon University, 2006

Dean’s List—Lehigh University, 2004 / 2005

Homewood Memorial Scholarship Award—Instrumentation, Systems and Automation Society (ISA), 2005

Eagle Scout—Boy Scouts of America, 1999

Activities

Professional Affiliations—Instrumentation, Systems, and Automation Society (ISA), Society of Automotive Engineers (SAE), American Society of Mechanical Engineers (ASME)

Recreational—Racing Sailboats, Lehigh Ultimate Frisbee Team, Tennis, Skiing, Music (trumpet, drums), Scuba Diving, Photography, Surfing