Craig Ginsberg | CraigGinsberg.com
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EDUCATION

THE COOPER UNION New York, NY
Master of Mechanical Engineering *Fall 2009 – Spring 2011*
Bachelor of Mechanical Engineering *Fall 2005 – Spring 2009*

Honors and Distinctions

- Cumulative GPA: 3.7 / 4.0, major GPA: 3.9 / 4.0, semester credit hours:165, Cum Laude
- Deans List: Eight out of ten full time semesters
- Nicholas M. Stefano Prize For Senior Project In Mechanical Engineering
- Membership: Tau Beta Pi Honor Society, National Collegiate Honor Society, ASME

Relevant Completed Courses

- Automotive Engineering
- Nuclear Engineering
- Design and Prototyping
- Manufacturing Engineering
- Systems Engineering
- Feedback Control Systems
- Mechatronics
- Circuits
- Industrial Robots
- Mechanical Vibrations
- Computer Architecture
- Programming Languages
- Autonomous Mobile Robots
- Engineering Experimentation
- Advanced Thermodynamics
- Aerodynamics and Space Dynamics
- Modern Physics
- Design Elements and Machine Design

GRADUATE WORK AT THE COOPER UNION **New York, NY**
Masters Student *2009-2011*

- Developed a test stand for hybrid vehicle drive-trains to simulate in use conditions
- Mechanical testing of vehicle drive-trains and software simulations using ADVISOR
- Implementation of data acquisition/controller based systems and their programming in Lab-VIEW
- Production of comprehensive thesis

SKILLS

- Mechanical system design, fabrication, construction, 2D and 3D CAD, computer systems, auto mechanics, industrial wiring, industrial plumbing
- Testing /experimentation, Lab-VIEW specialist, data acquisition, reverse engineering, electronics.
- Coordinating team operations, project management, operating heavy machinery; including telehandlers, lifts, cranes, forklifts and rigging
- Computer based modeling of systems, schematics, drawings, test methods, test procedures

EXPERIENCE

M & J Engineering, P.C. **New Hyde Park, NY**

Quality Control Inspector / Field Engineer *2020- 2023*

• Perform field inspections for LIRR third track expansion project on the main line.

• Prepare field inspection reports.

• Oversee the work of various trades including, carpenters, electricians, line men, and civil workers.

• Project elements included interlocks, signals, communications, switches, utility's, transmission and distribution, train stations, elevators, lighting, cameras, various sub systems and accessory features, windows, various architectural features, electrical substations, traction power systems, grade cross eliminations, parking garages, overpass bridges.

MUGU **Farmingdale, NY**

Engineering Design Consultant Part time

• Aided diagnosing root cause equipment issues for automated food preparation robots

• Designing remedial machine parts and sourcing their manufacture.

MATERIALS-TESTING LABS (ACQUIRED BY INTERTEK OCT 2015) **Farmingdale, NY**

Building Science Engineering Project Manager *2013-2020*

• Help grow division from its modest beginnings of a small business to a much larger business

• Cost estimation of construction projects

• Conduct destructive lab and field testing of fenestration products and construction materials.

• Prepare documentation including test reports/procedures, performance requirements, lab and field reports, quotes, schematics, diagrams, architectural/CAD drawings, and proposals for our clients.

• Manage multiple projects simultaneously

• Supervise the erection of large-scale building envelope mock-ups and their test rigging including coordination of all the trades

• Design, develop, and build testing equipment including measurement instrumentation and data acquisition/feedback control systems for controlled experiments

• Air/water blower/pump automated systems and associated pluming, hosing, hardware, and valves

• Perform controlled experiments to study the effect of hurricane, flood, and impact damage to windows, doors, curtain walls, storefronts, flood gates, and other building envelope solutions.

• Design and construct many test application specific pressure vessels including hydro-static, pneumatic, and hydraulic.

• Maintenance of quality documentation, certifications, accreditations, and equipment calibrations

• Travel abroad and meet with clients for inspection, in-plant test witnessing, product certification.

• Consult with clients on how to improve their products to meet certification standards.

THINK 2 BUILD LLC. **San Francisco, CA**

Mechanical Design and Prototyping Intern *Summer 2008*

• Designed and completed implementation of a product prototyping lab used in manufacture of products featured in Popular Science, NBC's The Office, and Inc 500's 7 New Technology Marvels.
• Refurbished and installed lathes, CNC mills, laser cutters, and other instruments.
• Managed the design, fabrication and testing of medical devices
• Prototyped line of ergonomic furniture for a client company called steel case. The furniture line won two gold awards at the 2009 Neocon.
• Engineered manufacture of functional and aesthetic lab furniture, including a large array of storage units with custom sliding doors, a large hardware organizer unit, and a very large dry-erase board with sliding panels for a conference room.

INDEPENDENT DESIGN CONTRACTOR *2011-2013*

• Designed and built many things during personal and client residential remodels including storm Sandy-related projects.
• Learned and implemented remodel process.
• fine wood working trades used in high end construction/remodeling and furniture design.

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