

Isaac Gemal

Long Branch, NJ 07740 | {firstnamelastname}@gmail.com | [Aizk.sh](#)

TECHNICAL SKILLS

- **Software:** AutoCAD, AutoCAD Civil 3D, Excel, ArcGIS
 - **Programming:** Python, SQL, VBA, AutoLISP
 - **Certifications:** Engineer in Training (EIT), OSHA 10, ACI Concrete Field Testing Technician Grade 1, ACI Concrete Strength Testing Technician, Nuclear Gauge Safety Certification
-

WORK EXPERIENCE

Hammer Land Engineering

Design Engineer: 3/24-5/24

- Aided in the design and drafting of concept plans for clients, focusing on land development projects

Partner Engineering & Science, Inc.

Design Engineer: 11/22-3/24

- Managed AutoCAD revisions for numerous projects, including the one of largest residential home development plan in New Jersey (549 units in Jackson, New Jersey)
- Projects included: zoning, layout, grading, drainage/utilities, stormwater calculations, soil erosion/sediment control, landscape/lighting and detail drawings
- Performed daily geotechnical site inspection services for residential construction sites, monitoring soil conditions, retaining wall constructions, and stormwater utility installations

Anheuser-Busch InBev

QA Intern: 6/20-8/20

- Wrote software to automate the monitoring of microbiological sample tracking of 200+ pieces of equipment throughout the brewery
- Worked with the Quality Assurance team to ensure beverages met production standards

Logistics Intern: 7/19-12/19

- Shadowed shift managers, assisting them with daily responsibilities
- Wrote custom scripts with VBA and SQL to gather inventory warehouse data for upper management
- Found and fixed a nationwide software bug to increase end of shift reporting accuracy by 4%

Hudson Valley Engineering Associates

Engineering Intern 8/18-12/18

- Performed daily concrete field tests to meet DOT specifications
 - Drilled concrete cores to analyze the strength of aging infrastructures
-

DESIGN EXPERIENCE

NYC Hackathon 1/24

- Leveraged GPT-4, Python, and open source chess data to find connections between two players from a database of tens of thousands of games, earning 3rd place in an NYC GPT-themed hackathon

Stevens Institute of Technology 5/22

- Worked with a team to investigate and test the capabilities of a historically significant fountain
 - Conducted site surveys, ran flow test simulations, and created scale models in collaboration with the Lake Hopatcong Historical Museum and Morris County Government, raised \$250,000 in grants
-

EDUCATION

Stevens Institute of Technology

Bachelor of Engineering in Civil Engineering 5/22

Honors: Edwin A. Stevens Scholarship

Coursework: Geotechnical Engineering, Water Resources Engineering, Modeling and Simulation, Steel Design, Concrete Design, Engineering Economics, Structural Analysis, Intro to ArcGIS, Fluid Mechanics