

# Gabriel Mishaan

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## EDUCATION

### University of Illinois at Urbana-Champaign

*M.Sc. in Geotechnical Engineering*

*GPA: 3.95/4.00*

**Urbana, IL**

*5/2019*

### Technion – Israel Institute of Technology

*B. Sc. in Civil Engineering*

*Honors: summa cum laude (GPA: 4.00/4.00)*

**Haifa, Israel**

*5/2017*

## WORK EXPERIENCE

### Langan Engineering and Environmental Services

**San Francisco, CA & Miami, FL**

*Senior Staff Engineer - Geotechnical*

*2/2021 – Current*

- Develop and manage proposals, budgets, and schedules of geotechnical projects from inception to completion
- Plan and execute subsurface investigations, geophysical surveys, and laboratory testing programs
- Generate geotechnical conclusions and recommendations based on the interpretation of subsurface data
- Perform complex analyses and modeling, design of foundation and underpinning systems, and special engineering inspections
- Implement and manage field activities including inspection, testing, observation, and quality assurance
- Ensure proper review of contract documents, insurance requirements, and subcontractor invoices
- Accomplish peer reviews of external projects to ensure compliance with building codes and industry standards

### Langan Engineering and Environmental Services

**San Francisco, CA**

*Staff Engineer - Geotechnical*

*8/2019-2/2021*

- Inspected ongoing construction work and ensured compliance to all geotechnical design standards
- Acted as liaison for the office, subcontractors, and clients
- Assisted in the coordination and resolution of multiple design issues with subcontractors, consultants, and clients
- Performed subsurface investigations and field tests
- Supervised field activities of several projects

### U.S. Department of Energy's Frontier Research Center & UIUC Rock Mechanics Laboratory

**Urbana, IL**

*Research Assistant*

*8/2017-5/2019*

- Part of the Geomechanics Measurements Group for applications in geo-energy projects
- Conducted research and modeling of accurate field behavior of geomaterials based on laboratory results
- Designed and assembled an experimental testing system for rock fracture tests at different scales using different methods such as Digital Image Correlation (DIC) and Acoustic Emission (AE)
- Engineered data processing algorithms for DIC and AE experimental data

## LEADERSHIP EXPERIENCE

### ACE Mentor Program of America

**Miami, FL**

*Mentor & Langan Miami Office Leader*

*6/2021-Current*

- Mentor high school students in topics related to Architecture, Construction, and Engineering (ACE) as part of coaching towards a national design competition to foster and encourage higher education and careers in ACE

### Student Sustainability Committee - University of Illinois at Urbana-Champaign

**Urbana, IL**

*Energy Subcommittee Chair*

*2/2018-5/2019*

- Responsible for allocating over \$1.1 million in funding towards project proposals related to sustainable and efficient energy solutions in campus, developing specific goals and objectives, and facilitating working group meetings
- Spearheaded the effort to secure funding for a Geothermal Heat Exchange System in the new \$75M Campus Instructional Facility, reducing energy consumption by 65%, or \$1.35M of savings over the building's operational lifespan compared to conventional heating and cooling

### Sustainability Working Advisory Team, Energy - University of Illinois at Urbana-Champaign

**Urbana, IL**

*Student Representative*

*2/2018-5/2019*

- Chaired the University of Illinois Climate Action Plan committee for clean energy generation, purchasing and distribution designed to guide university-wide policy and action

## SKILLS & INTERESTS

**Skills:** Microsoft Office Suite, MATLAB, PLAXIS, LPILE, AutoCAD

**Languages:** Spanish **Certifications:** EIT, Professional Engineer (exam passed, expected July 2022)