NOAH A. KAPPEL

PRESENT ADDRESS
25 Starbuck Drive, Apt 414
Green Island, NY 12183
(413)-301-3841

PERMANENT ADDRESS
41 Stephanie Lane
Westfield, MA 01085
noahkappel@yahoo.com

JOB OBJECTIVE

A Summer 2021 internship/job at a Civil Engineering company that will help develop my engineering skills and gain professional experience in the industry.

EDUCATION

Rensselaer Polytechnic Institute, Troy, NY
B.S. of Civil Engineering, 2021 G.P.A 3.98
M.Eng. Structural Engineering, 2022 G.P.A 4.0

RELEVANT EXPERIENCE

J.F. White Contracting Company **Summer 2018/Fall 2019**

Split Co-Op as a field engineer for the Springfield I-91 Viaduct, Springfield Union Station Platform, and Springfield York Street Pump Station projects. Experience in tracking quantities, field measurements, CAD, takeoffs, and working with contract documents. OSHA 10 Certified and AMTRAK Safety Training.

RELEVANT COURSEWORK

Advanced Steel Design **Spring 2021**

Advanced analysis and design of complex metal structures. Flexible, semi-rigid, and rigid connections. Plate girders, torsional design. Effects of semi-rigid connections on structural stability.

Matrix Structural Analysis **Spring 2021**

Principles of displacement-based structural analysis; development of element and structure stiffness matrices; direct stiffness method for matrix structural analysis of trusses, beams, and frames; computer analysis of structures; introduction to finite element method.

Steel Design **Fall 2020**

Analysis and design of metal structures. Structural materials and loads. Design of beams, columns, bolted and welded connections. Composite construction.

Wind Engineering **Fall 2020**

A course in the fields of fluid mechanics, meteorology, climatology, bluff-body aerodynamics, structural dynamics, code provisions for design, wind tunnel testing, and damage documentation.

Foundation Engineering **Fall 2020**

Subsurface investigation. The application of the principles of soil mechanics to the design of footings, retaining walls, pile foundations, bulkheads, cofferdams, bridge piers and abutments, and underpinnings.

Concrete Design **Spring 2020**

Analysis and design of reinforced concrete structures using ultimate strength methods. Design of beams, columns, slabs, and footings. Development and anchorage of reinforcing bars. Laboratory testing of hardened concrete mechanical properties.

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COMPUTER SKILLS

SAP 2000, AutoCAD, NX 11, Microsoft Office, MATLAB, HEC-HMS

HONORS AND AWARDS

Chi Epsilon Civil Engineering Honor Society- Vice President, National Society of Leadership and Success, Rensselaer Medal Recipient, Tau Beta Pi Engineering Honor Society, Massachusetts Building Congress Scholarship

EXTRACURRICULAR ACTIVITIES

Rensselaer Club Volleyball- Captain, Phi Mu Delta Fraternity- Recruitment Media Manager, American Society of Civil Engineers