

Edwin S. Yu, E.I.T.

2013, 77th Street,
Brooklyn, NY, 11214

Email: edwin.sk.yu@gmail.com

Home #: (718) 232-3759
Cell #: (646) 642-3661

- Objective:** To obtain a challenging full time position in Civil Engineering that will provide me with the opportunity to make strong contributions to the organizational service.
- Education:** **Polytechnic University**, Brooklyn, New York
Master of Science in Structural Engineering, Anticipated Graduation Date: **June 2007**
Bachelor of Science in Civil Engineering, Graduated *Cum Laude* June 2005, GPA: 3.5/4.0
- Honors/Awards:**
- Semifinalist, Intel Science Talent Search
 - Susan & Donald Weisstuch Scholarship
 - Polytechnic university Promise Scholarship
 - ASCE Met Section Younger Member Forum
 - The National Dean's List, '03, '04
 - University Dean's List, '02 – '05
 - S.A.M.E. Scholarship, '02 & '04
 - Merit Awards from Polytechnic University Student Council
- Experience:**
- Teaching in George Westinghouse High School**
- June' 04 – Present *RAISE Teaching Fellow (Program funded by National Science Foundation)*
- Enhance students' achievement in standardized exams, by integrating modern sensing, instrumentation, and monitoring technologies in the laboratory curriculum
 - Provide high school teachers with technology proficiency, qualifications, and resources to integrate project-based learning in science curriculum and instruction
 - Teach living environment class and perform sensor based demonstrations illustrating phenomena discussed
 - Develop laboratory experiments integrating modern sensing, instrumentation and monitoring technologies for high school living environment courses
- Sept' 03 – May' 05 **Teaching in Polytechnic University**
Tutor, Civil Engineering Department
- Tutor students in Statics & Dynamics and Mechanics of Materials
 - Assist professors in class development by grading homework and lab reports
 - Serve as a liaison between students, tutors, teaching assistants and faculty
- Feb' 03 – May' 03 *Tutor, Mathematics Department*
- Tutored Calculus I, II & III, Linear Algebra, Differential Equations and Data Analysis
 - Assisted students in developing problem solving techniques
- June' 02 – May' 05 *Teaching Assistant, Introductory Design and Science Department*
- Demonstrate and model leadership, time management and teamwork skills to students
 - Lecture students on engineering principles, leadership and project management skills
 - Organize and conduct a training session for new and returning General Engineering TA
 - Develop the General Engineering course by updating the course manual
- July' 03 – May' 05 **Research in Polytechnic University**
Research Assistant, Optical-Diagnostics Research Laboratory
- Presented my work "Monitoring Moisture Levels in Pavement Materials" in the Transportation Research Board 84th Annual Meeting '05
 - Perform testes on optical fibers durability in high temperature and acidic environment
 - Study polymer, pH sensitive sensors and electrochemistry on corrosion accelerating tests
 - Coordinated the proceedings of the program NACE Conference '03 and '04: Corrosion Control for Bridges
- July' 03 – May' 04 *Laboratory Assistant, Environmental Engineering Research Laboratory*
- Performed BOD5, TSS, Total Kjeldhal Nitrogen and Fecal Coliform analysis
 - Generated tests and took samples in a simulator
 - Edited proceedings and designed CD for The 35th Annual-Atlantic Industrial and Hazardous Waste Conference '03
- Computer Skills:** STAAD, AutoCAD, Cost Work, Primavera Project Planner, MS Project, MS Office
- Professional Memberships:** ASCE, NACE, ICTPA, WEF, SAME, Polybots Robotics, Photography Club
- Leaderships:** Former Elected Student Council Representative, ASCE & NYWEA
- Languages:**
- Fluent in English & Cantonese
- References:**
- Lists of references and publications available upon request

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List of Publications:

- Meetu Walia, **Edwin Yu**, Magued Iskander, Vikram Kapila, and Noel Kriftcher. The Modern Science Lab: Integrating Technology into the Classroom is the Solution, International Conference on Engineering Education, Instructional Technology, Assessment & E-learning, 2005
- C.S. Vimer, **E.S.K. YU**, M. Ghandehari. Probing pH Levels in Civil Engineering Materials, American Society of Civil Engineering Journal, 2004
- BLACKWELL, B.A.B., **E.S.K. YU**, B. LEUNG, I. TURK, J.I.B. BLICKSTEIN, A.R. SKINNER, M.N. DIVJAK, submitted for publication in 2006. ESR dating human cultural evolution and climatic change during the Late Pleistocene at Divje Babe I, Slovenia. In I. Turk, ed. *The Archaeological Site at Divje Babe I, Slovenia: The Paleoenvironments, Geochronology, and Archaeology Associated with the World's Oldest Musical Instrument* (approximate English title), Slovenian Academy of Sciences, Ljubljana.
- **Yu, E.S.K.**, B.A.B. BLACKWELL, I. TURK, J.I.B. BLICKSTEIN, A.R. SKINNER, M.N. DIVJAK, 2001a. ESR dating human cultural evolution and climatic change during the Late Pleistocene at Divje Babe I, Slovenia. *Geological Society of America Abstracts with Program* 33: A27.
- **Yu, E.S.K.**, General Affairs of Wah Yan Path Publication Team, *Wah Yan Path*, a Plantation History Book, Wah Yan Path Team of Wah Yan College, Kln, Hong Kong, 1998, p150, in English, ISBN: 962-85381-1-X
- **Yu, E.S.K.**, 紋枰小扎, *A Collection of Chess Strategy* (approximate English title), Chess Society of Wah Yan College, Kln, Hong Kong, 1998, p120, in Chinese