Stephanie Chin

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EDUCATION

Massachusetts Institute of Technology, Cambridge, Massachusetts, USA

- Bachelor of Science (B.S.) in Civil and Environmental Engineering 2015 – 2019
  - Interests: Network systems, Sustainability, Built infrastructure, Construction innovation
  - Coursework: Solid Mechanics (1.050), Project Evaluation and Management (1.011), Civil & Envir Engr Design I (1.101), Uncertainty in Engr (1.010), Comp Programming for Sci & Engr (1.000)
  - Cum GPA: 4.7/5.0, Major GPA: 5.0/5.0

Mass Academy of Math and Science at WPI, Worcester, Massachusetts, USA

- High School Diploma and classes at Worcester Polytechnic Institute 2013 – 2015
  - WPI Coursework: Systems Programming (CS-2303), Intro to Robotics (RBE-1001)

RESEARCH EXPERIENCE

Massachusetts Institute of Technology, Cambridge, MA

- Research Intern, Laboratory for Infrastructure Science and Sustainability Sep 2015- Present
  - Prepared and tested cement with volcanic ash additive and analyzed data about material properties.
  - Prepared and presented results at conferences in poster and Powerpoint presentation formats.
  - Revised and co-authored research papers (in preparation of publication).
  - Received MIT Freshman Research Award (May 2016).
  - Research areas: cement, sustainable materials, embodied energy, microstructure

Skanska USA, Boston, MA

- Intern, Innovative Construction Solutions group Jun 2016 – Aug 2016
  - Compiled and analyzed data about safety on construction jobsites.
  - Conducted preliminary background research about sensor technologies for Innovation Grant Program pilot projects.
  - Research areas: data analytics, safety management, sensor technologies, building construction

Worcester Polytechnic Institute, Robotics Dept, Worcester, MA

- Software Intern, FRCSim May 2015 – Aug 2015
  - Developed UI for a Solidworks plugin “FRCSim” that exported models to .SDF format for use with the robotics simulation and analysis software Gazebo
  - Beta-tested by high-schoolers in the FIRST Robotics Competition program
  - Research areas: programming, robotics simulation and analysis

PUBLICATIONS

Chin, S. (2013). Fermentation: The Natural Solution. The Scientia Review, scientiareview.org

AWARDS

MIT Freshman Research Award May 2016

CAMPUS ACTIVITIES

UA Sustainability Committee, Massachusetts Institute of Technology

- Treasurer Jun 2016 – Present
  - Managed finances for $6000 budget across 6 subcomittees.
- Project Lead, 2017 Dorm Electricity Competition subcommittee Jun 2016 – Present
- Member, 2016 Dorm Electricity Competition subcommittee Jan 2016 – May 2016
  - Solicited $3,500 sponsorship and $300 in-kind donations; designed infographics
- Dorm EcoRep Nov 2015 – Present
  - Proposed, planned, and managed a pilot composting initiative at the East Campus residence hall.

SKILLS

COMPUTER SKILLS

- Programming: C, C++, C#, Java, JavaScript, Python
- Analytics: IgorPro, SigmaPlot, MATLAB, Mathematica, Maple, MS Excel, and MS Access
- Presentation: LaTeX, GIMP, Microsoft Office
- Development software: Microsoft Visual Studio, Git, Emacs, Linux Terminal, Geany

ADDITIONAL SKILLS

- Technical Writing
- Advanced musician in Trumpet and Piano
- Scuba Diving (SDI Open Water Diver Certification)