

Stephen Hannan
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My name is Stephen Hannan and I graduated from the University of Delaware in Spring 2006 with a B.S. in Civil Engineering. I have been considered an out of the box thinker by many professors because of my green design concepts “that should be patented.”

My undergraduate coursework was filled with design based problems and projects in classes such as Construction Management, where I was the Project Manager, Water Resources Engineering, and Senior Design. I always looked for ways to reduce construction and life cycle costs through better layout and designs that employed reduced earth movement and impervious cover, grey water, recycled building materials, and alternative energy sources. I saw many ideas similar to mine in the homes on display at the Solar Decathlon in Washington D.C. this past year.

During my Senior Design Capstone Project, I learned how to bring together all the tools we had learned in our undergraduate work. This project improved my ability to review plans, CADD design, building codes, and permitting processes. This project tested out skills in teamwork, sustainable design, value engineering, communication, and making deadlines.

I take pride in my level of field experience, as outlined in my resume, because it balances technical background with practicality. This gives me the ability to see what each property has to offer and to design the least invasive solution by using the natural landscape and vegetation. I would like to continue my pursuit of sustainable design by exploring innovative green building ideas in collaboration with architects, engineers and builders.

Two of my professors were impressed by the big picture questions I asked and solutions I proposed, which helped the rest of the class to think differently. After taking courses with them, they also allowed me to pursue my green building design concepts by doing research with them.

- The Impact and Feasibility of Retrofitting an Existing Building on Campus. (*Professor Kaufman*)
The improvements included the addition of solar and wind energy collection system, passive solar improvements, green roof, natural shading and insulation, water reduction devices and reduced impervious cover.
- Creating Hydrogen Fuel Cells Through Wastewater Treatment. (*Professor Cha*)
We analyzed the best scenario for bacteria to produce hydrogen gas as means to create fuel cells and found that the addition of natural lighting increased hydrogen production efficiency.

You are welcome to contact either/both of these professors, whose contact information is listed on the attached reference sheet.

I am extremely excited about the rise of popularity and drive towards Sustainable Design in Seattle. My brother just accepted an assistant coaching position for University of Washington Swimming program. I helped him move from Austin and am looking to relocate with him. I enjoy Seattle because of the temperate climate, great music scene, young vibrant crowd, passion for outdoors and the major center for green building in this country.

Thank you for your time I hope that your company will allow me to pursue this desire.

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Position of Interest:

- ◆ Entry-level civil/architectural engineer in commercial and residential building
- ◆ Alternative energy sources, rain water collection, energy efficiency, and green building design

Education

- ◆ Bachelor of Science, Civil Engineering Cumulative GPA: 3.1/4.0
- ◆ University of Delaware, May 2006

Related Coursework and Computer Skills

- ◆ Water Resources Engineering, Environmental Engineering, Construction Management, Surveying and CAD, Communications in Business, Senior Design
- ◆ MicroStation, HECRAS, EPANET2, AutoCAD, Maple, and Matlab

Research/ Projects

- ◆ Solar & Wind Energy Retrofit
- ◆ Hydrogen Fuel Cell Production from wastewater treatment
- ◆ Design and build projects in water resources engineering

Work Experience (Internships)

Whitman, Requardt, and Associates, Baltimore, MD 05/2005–09/2005

- ◆ Researched and analyzed accident reports.
- ◆ Surveyed large projects, such as I-295, and gained further field experience.

Johnson, Mirmiran, and Thompson, Baltimore, MD; Newark, DE 05/2003-02/2005

- ◆ Survey Department - Performed all field survey functions; processed field data using MicroStation.
- ◆ Traffic Department - Performed on-site traffic observations and photographed site conditions
- ◆ Major Projects - Route 40 Bridge Rehabilitation, I-695, Intercounty Connector, Elkton Road improvements, I-95

STV Corporation, Baltimore, MD May 2002

- ◆ Performed critical lane analysis, traffic flow analysis and trip generation; used this data to distribute flow to new traffic network

Non-Internship Experience: Owned/Managed Lawn Business with a max. of 30 customers for 7 years

Leadership/Awards

- ◆ University of Delaware: Chi Epsilon Engineering Honors Fraternity; inducted Spring 2005
- ◆ Member of the Order of Engineers
- ◆ Mount St. Joseph High School: *Alumni Association Award* for Scholastic Prowess, Extracurricular Achievement and Exceptional School Spirit
- ◆ Project Manager for Construction management project in undergraduate coursework

Special Interests

- ◆ Applying knowledge of sustainable building and solar energy to future engineering projects
- ◆ Mountain biking, photography, camping, and local music

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School References

1) Gerald J. Kauffman, P.E.

University of Delaware

302-831-4929

jerryk@udel.edu

Watershed Engineering and Independent Study Professor

2) Daniel K. Cha, Ph.D.

University of Delaware

cha@ce.edul.edu

302-831-2435

Environmental Engineering and Independent Study Professor

3) Robert Wm. Muir, Jr., PE

University of Delaware

215-895-0925

rmuir@udel.edu

Construction Management Professor

Work Related References

4) Gregory King L.S.

Whitman, Requardt and Associates, LLP (WRA)

443-224-1550

gking@wrallp.com

Worked in survey department twice during school

5) Brian Stickles

Johnson, Mirmiran, and Thompson (JMT)

410-316-2295

Worked in survey department for two summers