DSGN 370: Engineering Portfolio and Segal Design Certificate

The following design students are enrolled in the Engineering Portfolio course. Many of them are pursuing the Segal Design Certificate.

Alex Acosta
Civil Engineering, Architectural Engineering and Design
alexacosta2015@u.northwestern.edu
alexwacosta.com

Alex has a passion for creating buildings. He is a Senior studying Civil Engineering with a focus in Structural Design and a certificate in Architectural Engineering and Design. To start his career, he will be a construction manager in the U.S. Navy’s Civil Engineering Corp and later plans on going to graduate school for Structural Engineering.

Yifang Cao
Mechanical Engineering, Segal Design Certificate
yifangcao2016@u.northwestern.edu

Yifang Cao (Yee-Fahn Tsao) is a senior mechanical engineering student who is passionate about building a sustainable planet. She is pursuing the Segal Design Certificate and seeks to bring design thinking, empathic design, and analytical problem solving to her projects. Through systematic creativity, Yifang develops the most effective solutions to problems. Yifang aims to create clean, simple, minimally-wasteful designs.

Lauren Fan
Radio TV/Film, Segal Design Certificate
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laurenfan.com

Lauren’s a filmmaker, photographer, and design thinker hailing from Pleasanton, CA. She’s driven by a love of connecting people through story and by shared happiness, and know it’s gotta be part of whatever she ends up doing! She’s a huge Pixar aficionado and you can find her strumming away at the ukulele, counting down the days till Christmas, or nerding out over awesome adventure photography in her spare time. Come say hello!

Spencer Gellman
Mechanical Engineering
sgellman@u.northwestern.edu
spencerjgellman.wix.com/portfolio

Spencer Gellman is a mechanical engineering and design student pursuing combined bachelor’s and master’s degrees at Northwestern University. He has experience in the automotive and manufacturing industries, and will be working as a propulsion engineer at The Boeing Company this summer. He enjoys applying the technical and analytical skills that he learns in the classroom toward finding solutions to real-world challenges.

Spencer is also an avid marathoner and loves to travel.
Lupe Gomez
Civil Engineering, Architectural Engineering and Design
lupe@u.northwestern.edu
lupegomez.me

Lupe is a student at Northwestern University and a candidate for a Bachelor’s of Science in Civil Engineering and an Architectural Engineering and Design Certificate.

Lupe believes architecture and engineering have the power and agency to empower marginalized communities through urban and spatial intervention.

Lupe intends to one day be a part of the movement that provides equitable housing, combats gentrification, and acknowledges the voices of those whom are affected by engineering and architectural design.

Sean Hughes
Mechanical Engineering, Segal Design Certificate
seanhughes2017@u.northwestern.edu
seanhughesphotography.com

Sean Hughes is a junior from Oakland, CA, studying Mechanical Engineering and pursuing the Segal Design Certificate. When he isn’t studying he likes to take photographs because photos give him a way to share moments and experiences with his friends and family. Sean especially likes portraiture because it gives him a way to showcase people’s personalities and convey the beauty inherent in everyone.

The portfolio on display is of photography taken in the last 3 years, encompassing portraiture, nature, and event photography.

Sachin Lal
Computer Science
sachinlal2016@u.northwestern.edu
lalsachin.github.io

Sachin Lal is a senior studying Computer Science and pursuing the Segal Design Certificate. He is interested in Data Science, Machine Learning, and Human Computer Interaction. Through his coursework, projects, and professional experience, Sachin has learned the importance of data driven design to create intuitive solutions. His hobbies include traveling, squash, and playing piano.

Ghichong Lew
Psychology, Economics
ghilew2016@u.northwestern.edu
ghichonglew.wix.com/portfolio

Ghichong Lew is a senior in Weinberg, who is pursuing a major in Psychology and a minor in Economics, and the Segal Design Certificate. On campus, he is involved with the Daily Northwestern, designing graphics for the publication, as well as ASG Services, providing students with innovative solutions to various challenges. After graduation, he is aspiring to pursue a career in design, thinking creatively to ideate products meticulous in its form and function. His portfolio exhibits the various design projects he accomplished at Northwestern, as well as his personal photography and art work he enjoys doing in his free time.
Olivia Lim
Art History, Segal Design Institute
olivialim@u.northwestern.edu
oliviajlim.com

Olivia is an Art History major and pursuing the Segal Design Certificate, where she finds the intersections between art and design. Her main passions lie in iOS Development and UI/UX design. She enjoys crafting iPhone experiences and loves the idea of creating mobile apps that impact people in a meaningful way. She is currently the editor-in-chief of SLANT NU.

Elaine Lokken
Mechanical Engineering
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elainelokken.com

Elaine Lokken is a senior studying Mechanical Engineering and pursuing the Segal Design Certificate. Born and raised in Houston Texas, she decided to venture north to Evanston for an engineering education and some snow. Her plans for after graduation are still being set, so Elaine remains in the midst of the job search for now. She loves all things aerospace and enjoys ballroom dancing in her spare time. She is always creating and building things, from class projects to sewing projects to woodworking projects, and is excited for her next adventure in engineering.

Christina Lundgren
Mechanical Engineering
christinalundgren2017@u.northwestern.edu
christinalundgren.com

“Christina Lundgren is Mechanical Engineering student at Northwestern University pursuing the Segal Design Certificate. Currently, she is looking to gain more experience in design-related work through an internship and additional project work. Her goal is to engineer projects while prioritizing design thinking. In her spare time she has a passion for creating art while enjoying living in the Chicagoland area.”

John McCartney
Mechanical Engineering, Segal Design Certificate
johnmccartney2012@u.northwestern.edu
megotdog.wix.com/johnmccartney

John McCartney is a mechanical engineering and Segal Design certificate student graduating in June 2016. Through coursework and extracurricular activities, John has developed a plethora of engineering analysis and design skills needed to excel in industry. Specifically John’s involvement in NU Stars and coursework for the Design Certificate have helped to integrate his engineering and design skills, making him a candidate for a position in the engineering field. Future plans include possibly finishing an MS in mechanical engineering next spring at Northwestern and then seeking possible employment with an aerospace company. John has worked on a wide array of projects using various skills in an effort to become as complete a design engineer as possible.
Nikhil Pai  
Computer Science  
nikhilpai2016@u.northwestern.edu  
nikhilpi.com  

Nikhil is a senior in Computer Science and earning certificates in Engineering Design, and Entrepreneurship. He is half Thai and half Indian, and grew up in 6 counties. Nikhil’s work focuses on front end web development and which he applied while working at Slack and Groupon. He is interested in working on consumer facing products and education technology.

Jared Pratt  
Mechanical Engineering  
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jaredpratt.work  

Jared is a Mechanical Engineering major, originally from a suburb of Boston. He became interested in design through his course work and his co-op with the Wrigley Global Design Team. He has developed a strong interest in 3D printing and other rapid prototyping techniques. At Northwestern, he participates on the BAJA SAE team and has held positions in his fraternity, Phi Gamma Delta.

Thomas Sanford  
Mechanical Engineering, Segal Design Certificate  
ts@u.northwestern.edu  
tom-sanford.com  

Tom is a Senior Mechanical Engineering major with aspirations to enter the design world upon graduation. Tom hopes to combine solidified technical skills with the human centered design process to creatively solve problems with tough engineering challenges. His passion for empathy in design allows his project solutions to meet exact user requirements while remaining intuitive for those same individuals to use. As a Studio Lead for Northwestern’s chapter of Design for America, Tom has gained experience in educating others about the design process and its applications concerning social change in the community. In his free time, Tom enjoys his time playing for Northwestern Club Baseball or practicing his woodworking hobby. Feel free to ask about some of the pieces he’s created recently!

Michael Worthington  
Mechanical Engineering  
michaelworthington2012@u.northwestern.edu  
michael-worthington.com  

My name is Michael Worthington and I am a senior studying Mechanical Engineering.

Come check out my site!

Joshua Kim  
Biological Sciences, Segal Design Certificate  
joshuakim2017@u.northwestern.edu  
www.kimerprops.com  

Joshua Kim is the founder and head prop maker of Kimer Props. Kim spent 4 years building rockets for his high school’s rocketry club, a club Kim founded to compete in national rocketry competitions. While building what is now his current fleet of over 70 rockets, Kim was introduced to the world of replica props in 2011, and soon after founded Kimer Props. Kim is entirely self-taught through over a thousand hours of research, experimentation, and analysis of different materials and building techniques. Kim desires for his work to inspire others to be creative, innovative, and most of all enthusiastic about making their dreams a reality.
DSGN 384: Interdisciplinary Design Projects and MaDE

The following design students are presenting project work as part of DSGN 384, and may be presenting individual engineering portfolios as well.

**Tito Fernandez**  
Mechanical Engineering, Manufacturing and Design Engineering  
alfonsofernandez2017@u.northwestern.edu

Tito Fernandez was born in Venezuela, and raised here in the Chicago-land area. He is currently a senior in the ME/MaDE dual degree, and has particular interest in robotics and mechanical systems.

During his time here at NU, Tito has developed a great love for mechanical design, and the design process in general. He has applied this process in several projects, ranging from program design in Discrete Mechanics to developing tools to improve the design process at the Shedd Aquarium.

Other interests and hobbies include electronics, teaching, reading, karate, piano, and vocal performance.

**Angela Hosbein**  
Mechanical Engineering, Manufacturing and Design Engineering  
angelahosbein2017@u.northwestern.edu

This project is seeking to replicate a 9th century working Viking forge.

**Kristin Zubritzky**  
Industrial Design, Segal Design Certificate  
kristinzubritzky2013@u.northwestern.edu

Kristin is a junior studying Industrial Engineering at Northwestern along with the Segal Design Certificate. In previous design classes, she has worked on projects to improve medical devices, but loves being able to work with a different kind of client this year - the Shedd Aquarium. Outside of academics, Kristin teaches kids’ coding classes in Wilmette, does web development for North By Northwestern Magazine, serves on a committee for Northwestern University Dance Marathon, and is the Public Relations Vice President for GreekBuild.

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