



2018 - 2019

SCHOLARSHIP
RECOGNITION LUNCHEON

SJSU

CHARLES W. DAVIDSON
COLLEGE OF ENGINEERING

WELCOME



Welcome from Dean Sheryl Ehrman

Welcome, scholars and sponsors!

Students, we think you made a wise decision to pursue your academic explorations at the Charles W. Davidson College of Engineering at San José State University.

We are here to support your growth both as an engineer and as a well-rounded engaged citizen. We celebrate your accomplishments and look forward to traveling with you on the road ahead. Our goal is to make SJSU a platform from which you can launch anywhere, whether you go on to a graduate program, a career with an established company, or create a new start-up.

Sponsors and donors, you have our heartfelt appreciation for supporting the dreams and aspirations of these inspiring students. Your generosity helps to support our mission: to prepare engineering students to fully contribute to the innovation, entrepreneurship and leadership of Silicon Valley and beyond. We truly appreciate your commitment.

Sheryl Ehrman

Don Beall Dean

Charles W. Davidson College of Engineering

SCHOLARSHIP RECOGNITION PROGRAM

November 9, 2018

11:30 am — 2:00 pm

11:30 Registration & Appetizer Reception

12:00 Program

12:30 Luncheon

Welcome Remarks

Dr. Sheryl Ehrman

*Don Beall Dean
Charles W. Davidson College
of Engineering*

Scholarship Sponsor Speakers

Terri Meacham

*Steven Meacham Memorial
Scholarship*

Dr. Thalia Anagnos

*Principal Investigator
National Science Foundation
Engineering Leadership
Pathway Scholars Grant*

Scholarship Alumni Speakers

Michael Grace

*National Science Foundation
Engineering Leadership
Pathway Scholar*

Melissa Ortiz

*National Science Foundation
Engineering Leadership
Pathway Scholar*

SPEAKERS



Keynote: Terri Meacham

Steven Meacham Memorial Scholarship

Terri Meacham is a program manager for Northrop Grumman in Palmdale California. Her most fulfilling job, however, has been as a wife and mother of two. She enjoys spending time at the beach or hiking in the Sierras. When she has time, she enjoys reading and quilting. Terri lives with her husband, Tim, in a small mountain community outside of Tehachapi, California.



Dr. Thalia Anagnos

*P.I., National Science Foundation
Engineering Leadership Pathway Grant*

Dr. Anagnos is SJSU Associate Vice President of Graduate and Undergraduate Programs, an engineering professor, and an earthquake engineer. Winner of an SJSU Outstanding Professor award, Anagnos was recognized for her commitment to providing students with access to higher education. She served for more than 25 years on the organizing committee for Expanding Your Horizons, a conference aimed at encouraging young women to pursue STEM careers. She was granted \$1.2 million from the National Science Foundation for the Engineering Leadership Pathway Scholars program and has coordinated the program since 2010.

2018 – 2019 SCHOLARS

John Akin Scholars

Julie Bao
Scott Lutes

Walter Benzing Fellow

Erika Young

David A. Brown Scholars

Phat Nguyen
Benjamin Lagace

Ching Family Scholar

Ameen Saleminik

Ditmore Family Endowment and NACME Scholar

Cassandra Villicana

Emma E. Legg Memorial Scholar

Shivani Sharma

Harry Wong Scholars

Ashley Bidabe
Jacob David
Cooper Gable
Joel Lucatero
Vikas Naveen
Syeda Rizvi

Hickman Family Scholar

Alex Gomez Chavez

Jabil Scholar

Joey Zhu

Jane Evans Endowment Scholars

Jared Arroyo-Garcia
Kyle Carter
Udit Chopla
Kimberly Flores
Elisa Parent
Vennis Tinaco

KLA-Tencor Scholars

Sophie Chen
Vivian Leung

Lam Research Scholar

Christian Sy

Steven Meacham Memorial Scholar

Ivan Ayala

MEP Scholars

Kanda Mamta
Khoa Bao
Oscar Balvaneda

Munson Family Scholars

Luis Aguilar
Andrew Duff
Diana Knobler
Julia Marie Gosiengfiao

National Action Council for Minorities in Engineering Scholars

Vanessa Aldaz
Belia Iniguez
Crystal Perez-Reymundo
Marvin Pablo

Roelandts Foundation Scholars

Menson Lee
Christopher Tran

Samsung/Lockeed Martin/ KLA Scholar

Sarah Walker

SVES Fund Scholars

Joshua Gendein
Antonio Gonzalez Fuentes
Wyatt Goodsite
Antonio Hernandez
Jacob Toy
Ryan Wade

National Science Foundation Engineering Leadership Pathway Faculty Mentors

Thalia Anagnos
Fred Barez
Richard Chung
Magdalini Eirinaki
Nicole Okamoto
Laura Sullivan-Green

National Science Foundation Engineering Leadership Pathway Scholars

Luis Arevalo
Peeyusha Boorada
Tyler Bruno
Andrea Coto
Anique Davla
Anthony DiSilvestre
Martin Garcia
Isaac Gendler
Isaiah Gosiengfiao
Stephanie Hadley
Karina Huete
Supreet Kaur
Andy Ma
Thuan Pham
Joshua Renz
Lucky Wen

SCHOLARSHIP AWARDEES

JOHN AKIN SCHOLARS



Julie Bao

Computer Engineering, Class of 2019

"This summer, I interned at Cisco again! I realized how different work and school really are and how important it is to never stop learning and re-learning. I am currently President of Society of Women Engineers and Treasurer of Tau Beta Pi. I love being involved in different clubs because they give me the opportunity to meet new people and to learn and grow as a person. The people skills I develop from being involved in clubs are not taught in classes and will be beneficial to my career later on. Managing my priorities between clubs and school was challenging at first, but taught me how to properly manage my time."



Scott Lutes

Mechanical Engineering, Class of 2019

"I want to work with federal agencies and private industry to develop a standard for environmentally friendly construction methods. My first internship was with the Army Corps of Engineers, doing environmental restoration at the Former Fort Ord Military base; it lasted seven years. I interned with the Naval Postgraduate School, developing tools to chemically identify buried unexploded ordnance. Then I interned with the City of Monterey's engineering department, developing plans and specs to replace HVAC systems to save money and the environment. Finally, a summer internship with Turner Construction became part-time employment. We are responsible for preserving hangars 2 and 3 on Moffett Airfield, in Mountain View."

HICKMAN FAMILY SCHOLAR



Alex Gomez Chavez

*Computer Engineering,
Class of 2020*

"The world is constantly changing whether we see the change or not. It can be the world in its entirety or the entirety of a person's world. I hope that in my career as an engineer I get the opportunity to change someone's world, if not everyone's world, for the better with something I create. As long as what I create changes one life for the better, that's all that matters."

CHING FAMILY SCHOLAR



Ameen Saleminik

Computer Engineering, Class of 2020

"The best class project I worked on was when I led a group that made a drone, with the codename TABITHA. The importance of it came when we failed, as the project proved too big for our skills. Then and there I learned that not everything goes to plan, and a great leader is not defined by his ambitions, but how well he can make them a reality. TABITHA now remains in my closet as a drone that can't fly, but it has helped other, realistic, projects take off as a result."

JABIL SCHOLAR



Joey Zhu

Mechanical Engineering, Class of 2019

"I am the Vehicle Dynamics Analyst for the Formula SAE team at SJSU. My favorite part of the club is having the ability to apply engineering methodologies to design, build, and test an autocross style racecar and compete against hundreds of other schools. The most challenging part is something ubiquitous in the engineering world: project management. The most fun part of the Formula SAE team is having the ability to see my own designs at work and representing SJSU at the Michigan and Nebraska competitions, while having fun with my friends and classmates."

SCHOLARSHIP AWARDEES

HARRY WONG SCHOLARS



Vikas Naveen

Computer Engineering, Class of 2019

"This summer I interned at Microsoft, in its Surface organization. During my internship I was able to work with a diverse team on an impactful project. Learning from senior members within the organization was satisfying and fulfilling. The most memorable part of working at Microsoft was seeing the hard work and dedication that each employee put into building each of the products. My dream job involves building new technology which helps makes the lives of others more convenient. One aspect of technology where this is possible is in the field of autonomous vehicles. I aim to improve the safety and reliability of the self-driving cars to make transportation safer and more accessible to the general public."

Syeda Rizvi | *Electrical Engineering, Class of 2019*

"I would like to work in the electric vehicle industry. During the lifetime of my career, I would like to make a significant contribution to efforts that promote a sustainable future and I believe electric cars and other zero emission vehicles play a major role in that future. This summer, I interned at a robotics startup company, ConnectMyEV. I was part of a very small team working on critical aspects of the robot and my projects during the summer were directly related to the progress of the company. I am glad that I was able to use the skills I had learned in school and apply them to a real-world application that will be meaningful to everyday life, while expanding upon my skills and developing them further. I was also thankful to get the opportunity to interact with engineers working not only in my field but others as well."



HARRY WONG SCHOLARS

Jacob T. David

Software Engineering, Class of 2020

"I would like to develop applications that assist in research against diseases and disorders so we get a better understanding of them, and have a better knowledge of diagnosing and treating them. I joined the Software Engineering and Computer Science clubs. Both clubs helped guide my decisions in the right direction regarding classes and learning habits. I made many friends and acquaintances. Every time I look back at a difficult exam or assignment, I feel satisfied, as I survived through it and learned through my mistakes. These hurdles are a sign of maturity for me."



LAM RESEARCH SCHOLAR



Christian Sy I *Chemical Engineering, Class of 2020*

"The best class project I have worked on so far is building an autonomous robot in ENGR 10 because it required extensive research and took me out of my comfort zone. I had limited experience in writing code, yet I was assigned to create and perfect the code for the robot. The robot was tasked to find a red beacon and turn it off, then find a green beacon and carry it out of the arena. This was easily the most stressful project I've had to do so far, but it was also one of the most fun projects I've done. My group was required to split up into three different groups, each assigned with specific tasks. It was extremely satisfying watching the robot perform all required assignments after about two months of hard work. I had no previous experience building a robot, and I had a fun time learning about engineering topics outside of my major, such as electrical and computer engineering."

SCHOLARSHIP AWARDEES

JANE EVANS ENDOWMENT SCHOLARS



Vennis Tinaco | *Electrical Engineering, Class of 2022*

"I still remember the feeling of amazement and awe I experienced when I first sat in a self-driving Tesla. Groundbreaking technology like this interests me the most, and I would love to have a job where I am able to achieve advancements that haven't been done before."



Kimberly Flores | *Computer Engineering, Class of 2019*

"I had a 10-week internship with GE Digital in San Ramon this summer. I worked with the Adoption and Extension team constructing an ecosystem growth through customer enablement, onboarding, and application extensibility. I had to provide continuously available and stable demo environments that showcase business outcomes to customers. The internship was memorable because of the amount of responsibility that was entrusted to me. Growing up shy, talking to professionals and peers has always been difficult for me, but through this scholarship, I have been able to meet many respected individuals."

KLA-TENCOR SCHOLARS

Sophie Chen | *Software Engineering, Class of 2020*

“Last semester, I worked on a four-person group project to build a food review website based on Yelp. Users could search up restaurants, view reviews posted by others and comment, and write a review themselves. Although my group and I struggled with this project, looking back, I think it was the best class project I have worked on because of the obstacles I encountered, such as learning a new coding language, teamwork and communication problems. As a result of the stress to complete the project within the given time frame and the problems that came with it, this project was definitely a learning experience both technically and socially.”



Vivian Leung | *Software Engineering, Class of 2019*

“My dream job is to work on the latest creative visual technology. So that could mean anything ranging from virtual reality to simulation, holographics, computer graphics and animation, game engines, and Adobe software. I want to help increase the diversity of representation for women, people of color, and queer folk. Whatever I do, I hope to empower, inspire, and give opportunities to people who are underprivileged or have a harder time chasing their passion for STEM and arts because of their identities. Currently, I’m very active in my club, Society of Women Engineers, and am serving as the current treasurer. I do my best to support queer, female minorities in the art and entertainment industry, and hope to someday share the spotlight with them.”

SCHOLARSHIP AWARDEES

STEVEN MEACHAM MEMORIAL SCHOLAR

Ivan Ayala | *Mechanical Engineering, Class of 2019*

"I had an internship at Fox Racing where I was a Computer Numerical Control machine operator producing machined parts by programming and maintaining equipment. I also worked as a tutor at my college. I enjoyed it because I was able to teach what I have learned through my tricks so that students can learn material deeper in math and physics in a faster and easier way. I am proud and thankful to share and encourage other students to pursue their goals by sharing my experiences. I recently worked as a mechanical technician with an engineer at a small company named Smith and Vandiver, fixing and assembling hyper press machines that manufacture bath-bombs, lotions, and soaps."



MUNSON FAMILY SCHOLAR



Luis Aguilar | *Mechanical Engineering, Class of 2020*

"My passion is to help my community by implementing technology that can sustain a healthy environment and mindset. This scholarship helped me develop communication and leadership skills by allowing me to focus more on my academics and extracurricular activities inside and outside SJSU. I was able to tutor for low income schools in San Jose which has been a life changing experience. I was also able to take leadership positions in the Society of Latino Engineers and Scientists at SJSU and Juventud Franciscana, a youth group at Our Lady of Guadalupe Church. It is challenging to balance academics with clubs, but it is worth it because I challenge myself to get out of my comfort zone and it brings me pride knowing that I am capable of breaking my barriers."

MESA ENGINEERING PROGRAM SCHOLARS

Khoa Bao | *Materials Engineering, Class of 2020*

"Not only have I become the first generation in my family to attend university, but also I have set an example for my younger brother who will be a freshman at SJSU this Fall. I am currently doing a research project called "Tape-casting Textured Alumina" with a group of five others, mentored by Dr. Keles. This research project has become a great opportunity for me to learn something practical as well as effective study habits from my team and Dr. Keles. I learned how to properly process, organize and summarize data; write a research paper; perform laboratory experiments; and perform related laboratory maintenance."



Oscar Balvaneda | *Mechanical Engineering, Class of 2019*

"Networking is easy being around likeminded students with much in common. Here is where the lifetime friendships are made. Earlier this year I was hired at Solarius Development as an engineering intern. It is a relatively close drive to North San Jose. Although a small company, I could not be happier. In a small company, I have the opportunity to work closely with applications engineers, systems engineers, technical managers and much more employees with years of experience and knowledge."



Mamta Kanda

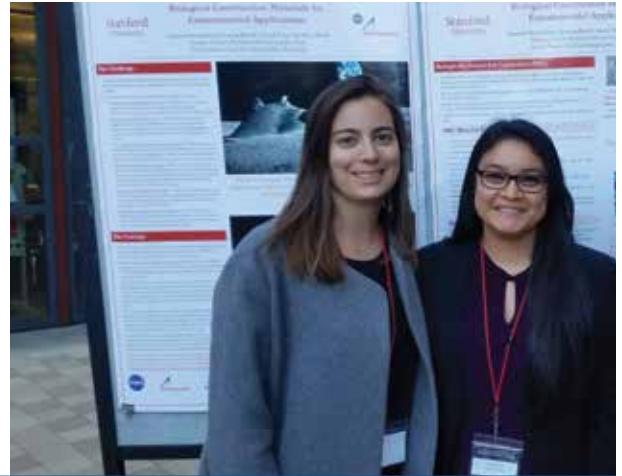
Industrial and Systems Engineering, Class of 2021

"Being a first generation female in a STEM field constantly motivates me to defy the odds and encourage many others along the way to pursue a degree in an industry that may be stereotypically dominated by males. This scholarship allowed me to attend the Annual Institute of Industrial and Systems Engineering (IISE) conference being held in Orlando, FL. I am also the Community Service Lead for the IISE Club, where I help plan events to get our club involved in our local community."

SCHOLARSHIP AWARDEES



Udit Chopla takes a scenic break from visiting Google's San Francisco campus.



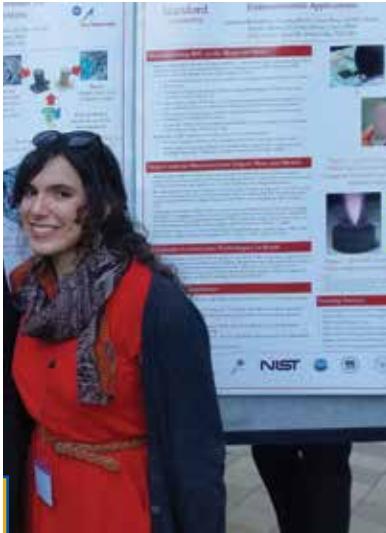
Andrea Coto (center) stands with her PhD mentors at a poster session at Stanford University



Sue Kaur and Isaac Gendler stand in front of Hoover Tower while attending the Graduate Pathways to STEM workshop hosted at Stanford University.

Vivian Leung represents SJSU and the Society of Women Engineers at National WE18 conference in Minnesota.

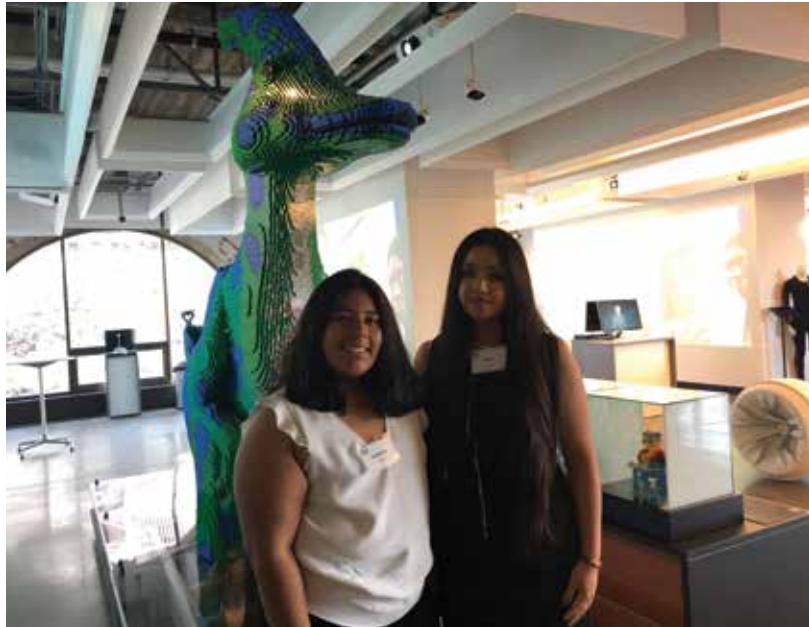




Left: Vivian Leung dabs at the annual SJSU Conference for Engineering Diversity (BASE Diversity Career Fair)

Below: Belia Iniguez (r) and Vanessa Aldas (l) attend the NACME Industry reception at the Autodesk Gallery in San Francisco

Chris Tran stops for some fresh air after interviewing at NASA.



SCHOLARSHIP AWARDEES

DITMORE FAMILY ENDOWMENT SCHOLAR AND NACME SCHOLAR



Cassandra Villicana

Biomedical Engineering, Class of 2019

"My dream job is to do research and/or create tools that help scientists find the answers we need. I hope to accomplish a medical breakthrough which could help those in need. This summer I interned at Boston Scientific as an R&D Engineer and the most memorable thing about this was being able to work on a top priority project that ultimately would help many patients and physicians with treatments."

NATIONAL ACTION COUNCIL FOR MINORITIES IN ENGINEERING (NACME) SCHOLARS

Belia Iniguez | *Industrial & Systems Engineering, Class of 2020*

"The NACME scholarship has allowed me to live the full college experience by being able to live in San Jose, as I am no longer required to commute from Hayward. Being able to live closer to campus allows me to be more involved in student organizations and to be more submerged in my education. In the Society of Latino Engineers and Scientists I am the Science Extravaganza co-chair. Science Extravaganza is the biggest student-organized event at SJSU, it's a one-day event that brings in over 400 middle school students and aims to increase their interest in STEM. In my career I hope to be able to reach my full potential and pursue a PhD in Human Factors and Ergonomics. This would be of great significance to my family and me, because I am a first generation college student."



NATIONAL ACTION COUNCIL FOR MINORITIES IN ENGINEERING (NACME) SCHOLARS



Crystal Perez-Reymundo | *Civil Engineering, Class of 2019*
Minor: Spanish Language and Mexican-American Studies

"This scholarship has allowed me to not worry about my financial situation but instead be able to focus on school and on taking on internships or learning experiences which provide me with experience but not necessarily financial support. I have had an internship with the City of San Jose in the Materials Testing Lab. Although I have not decided on whether I would like to work on the public or private sector yet, I would love a job where I can travel and learn about construction and transportation systems around the world. This sparks my interest greatly because every location accommodates to its daily way of life, and analyzing and observing new things greatly catches my interest. In my career I hope to contribute to a project in which some day, when I'm old, I can be proud to say I contributed to making that project successful."

Marvin A. Pablo Perez | *Mechanical Engineering, Class of 2020*

"The best class project has been building a robot with my groupmates in Engineering 10. I like that project because I earned hands-on experience in soldering, and when we faced the many challenges in the design, we would brainstorm solutions and then try them. It was funny how our robot would meet the requirements but five seconds later it wouldn't. Trying to identify the cause of the problem was like looking for your friend who is hiding in a huge castle. In the end, we created a good and satisfactory robot overall. However, seeing all the other designs made me realize that ours could have been better and that I still have a long path to cover in order to be an effective and proficient problem solver."



SCHOLARSHIP AWARDEES

ROELANDTS FOUNDATION SCHOLAR



Christopher Tran | *Materials Engineering, Class of 2020*

"I am currently a member of Materials Advantage and Society of Plastic and Engineers; these two organizations have helped me grow as a person and build lifelong friendships. I hope to change the world through the work I am currently doing with Dr. Melinda Simon of the Biomedical Engineering Department. Right now, we are working on a project for bioprinting and tissue engineering. This project is interesting to me because my father passed away right when I started my first semester at SJSU. He died of Idiopathic Pulmonary Fibrosis while waiting for a new lung. My end goal is to hand this project off to a new student around the time I graduate. Hopefully my time at SJSU will contribute to bioprinted organs to better the world."

SAMSUNG / LOCKHEED MARTIN / KLA SCHOLAR



Sarah Walker | *Electrical Engineering, Class of 2020*

"I aspire to one day be CEO of an innovative company leading and inspiring people to create positive change within the world. I dream to be a CEO not for the title, but for the influence to create positive impact. When I was in high school, I worked with Santa Clara University's Society of Women Engineers on a project where I built a prosthetic hand and sent it to someone in a developing nation that was in need of one. This project inspired me to become an engineer, and align my career goals around something similar. As CEO, I would like to incorporate my electrical and biomedical engineering knowledge to further the works of prosthetics, human welfare, and environmental health."

SVES FUND SCHOLARS



Ryan Wade | *Civil Engineering, Class of 2020*

“There is untapped potential in using what is already available to us, rather than what could be available. The best project I have worked on was a bridge design project for my statics class. We were tasked with designing a bridge using the West Point bridge design simulator, and had to meet a certain amount of safety requirements. The overall goal was to be within the parameters while minimizing the budget. I enjoyed the design aspect and testing several different techniques before narrowing in on final decisions.”

Antonio Gonzalez | *Mechanical Engineering, Class of 2020*

“I am a member of Society of Latino Engineers and Scientists and the current treasurer. I enjoy this club because it assists Latino students in excelling professionally and socially in the STEM fields. Before this summer, my dream job was to be part of an automotive crew as a mechanical designer. However, after working with my dad in the lettuce fields this entire summer, I realized and experienced the hard work and pain farm workers feel day after day. Based on those experiences, my dream job has become to design machinery for agriculture so that harvest and agriculture production can be facilitated and the backbreaking labor can be reduced.”



SCHOLARSHIP AWARDEES

SVES FUND SCHOLARS



Wyatt Goodsite

Industrial & Systems Engineering, Class of 2020

"One of my main areas of focus is lifecycle analysis of products, especially plastic products, in hopes to formulate a better recycling system that will help local and global environments. For example, in the Bay Area, we allow millions of pounds of plastic into the bay every year, which is drastically affecting the bay's ecosystem. If there were more incentive for recycling plastics in the Bay Area, this would become less of an issue. I hope to change the way in which the global manufacturing and recycling infrastructure works and how it affects our global ecosystem. I am very involved in the new Maker Space, helping it become a resource for all engineering students to learn, make and collaborate on designs and ideas for projects. It has been a great experience setting up its operations and I am excited to see its effects on the maker community at SJSU and to see what projects it helps bring to life."

**NATIONAL SCIENCE FOUNDATION
ENGINEERING LEADERSHIP PATHWAY SCHOLARS**

Andy Ma | *Electrical Engineering, Class of 2019*

"Internships and first-hand experience in different industries allow us to become better engineers. I was lucky enough to get an internship at a CEM company called AsteelFlash this past summer. An internship at AsteelFlash allowed me to see another side of engineering. I was able to experience PCB design for various companies throughout Silicon Valley. It was a rare sight to see PCBs being made first hand and the amount of work that goes into the process of creating it."



Anthony DiSilvestre | *Civil Engineering, Class of 2019*

"I chose civil engineering as my major because I enjoy the idea of working on large projects, that are likely to have long lifecycles and therefore be able to serve more people. I am involved in the ASCE Mid Pacific Conference planning committee, which involves a lot of networking with local companies. I am also a member of Engineers Without Borders, where we as students have the autonomy to design and build solutions to real world problems for members of the community."

This scholarship has allowed me to save funds to go on a volunteer trip with Engineers Without Borders last summer to Ghana, Africa. I feel like I learned more during my two weeks there than any singular year of my community college education."

SCHOLARSHIP AWARDEES

NATIONAL SCIENCE FOUNDATION ENGINEERING LEADERSHIP PATHWAY SCHOLARS



Lucky Wen | *Electrical Engineering, Class of 2019*

"I currently intern at Jabil Circuits as a Test Engineer. With the help of my two mentors, I got to learn a lot about debugging data servers using the Linux operating system. Interning at this company made me realize how important each and every role is for a manufacturing company. Effective communication and mastery in one's area of expertise is crucial to delivering products out to market fast and effectively. Much like a great football team, a strong company also has dedicated roles that need to work in cohesion with each other to remain competitive in this ever-changing, fast-paced society. Being a first generation Asian American to get through college with a degree is a monumental achievement for me and my family."

Isaac Gendler | *Mechanical Engineering, Class of 2019*

"I hope to become a driving force in the proliferation of sustainable and resilient critical infrastructure. My dream job would be to work as an analyst or consultant for an international sustainable development group. I chose SJSU because I wanted to experience the dynamic culture and technological ecosystem of the Bay Area, and this scholarship allowed me to focus full time on my studies and research."



**NATIONAL SCIENCE FOUNDATION
ENGINEERING LEADERSHIP PATHWAY SCHOLARS**

Stephanie Hadley | *Aerospace Engineering, Class of 2019*

"I hope to aid in the adaptation of our species and all life possible that sustains us in order for our consciousness in the cosmos to expand to planets beyond our own, especially if we cannot reverse the potential catastrophic and permanent damage of exacerbated global warming. My role will be primarily in spacecraft design, life support systems, theoretical propulsion systems, and space mission planning. In Aerothermodynamics I had the opportunity to lead a great team in investigating the differences in thermodynamic properties on the existing heat shield designs that permit successful entry and subsequent landing of space crafts on Earth or other planetary bodies. This experience prepared me with some relevant background on heat transfer as it pertains to life-support systems and payload integration of them. My senior project is to design and integration a microbiome into a CubeSat, and my focus in our group will be on the thermal control system."



SCHOLARSHIP AWARDEES

NATIONAL SCIENCE FOUNDATION ENGINEERING LEADERSHIP PATHWAY SCHOLARS

Supreet Kaur | *Industrial & Systems Engineering, Class of 2019*

“Through the education and the support I received at SJSU I was able to apply for, and be accepted into, my dream internship at NASA Ames Research Center as a Systems Engineering intern. The classes I have taken at SJSU gave me a foundation to build upon and thrive in the R&D environment. I spent the summer working with a group of dynamic individuals on the Air Traffic Demonstration 2 team and have been invited to continue working there during the Fall and Spring semesters while I finish my senior year at SJSU. I am grateful to be able to work with many SJSU Alumni at NASA Ames.”



Thuan Pham

Biomedical Engineering, Class of 2019

“My dream job is to become an actual biomedical engineer who can design implantable devices to replace damaged body parts. Because I understand the value of life is so precious, I hope to improve the health of many people as possible so that they can enjoy their meaningful lives. In my career, I hope to accomplish safe, effective and low-cost prosthetic devices, such as implanted heart valves and ICDs. In my senior project we are designing a dynamic hand splint to improve wrist extension and mobility in hand function of children with cerebral palsy. The project is a perfect place for me to apply my theoretical knowledge, research skills and practice my teamwork, leadership, etc. These are all valuable lessons.”



Charles W. Davidson College of
Engineering, 2018 highlights:

Top Left: Precision Flight Team says
hello from Terre Haute

Top right: VR demo at the annual
Women in Engineering Conference

Bottom: The Spartan Hyperloop team

SCHOLARSHIP AWARDEES

STUDENT CLUBS AND ORGANIZATIONS

More than 60 organizations affiliated with the College of Engineering exist to provide students with opportunities for networking, leadership, teamwork, professional development, hands-on experience, and community building.

Discipline Based — These groups are tied to a specific major or industry and often are student chapters of well-established professional associations.

- American Concrete Institute
- American Institute of Aeronautics & Astronautics
- American Institute of Chemical Engineers
- American Society of Civil Engineers
- American Society of Heating, Refrigeration, and Air-Conditioning Engineers
- American Society of Mechanical Engineers
- Associated General Contractors
- Association of Technology, Manufacturing, and Applied Engineering
- Biomedical Engineering Society
- BMEidea
- Design Flight Team
- Human Factors and Ergonomics Society
- Institute of Electrical & Electronic Engineers
- Institute of Industrial & Systems Engineers
- Institute of Transportation Engineers
- Int'l Society of Pharmaceutical Engineers
- Materials Advantage
- Software and Computer Engineering Society
- Society of Automotive Engineers Int'l
- Society of Plastic Engineers
- Students for the Exploration and Development of Space
- User Experience Association

Project/Activity/Competition Based —

These groups generally focus on a physical task or project, often competing with other schools.

- Amateur Radio Club
- Augmented Reality/Virtual Reality Club
- Automated Transit Network Development Club
- Autonomous Vehicle Club
- Concrete Canoe Team
- Cube³
- Hoplite
- IDEAS at SJSU
- Network for Environment and Energy Development
- Rocket Club
- SJSU Robotics

STUDENT CLUBS AND ORGANIZATIONS

- SAE - Baja Vehicle
- SAE - Formula Vehicle
- SAE - Electric Vehicle
- Science Extravaganza
- SJSU Precision Flight Team
- Spartan Hyperloop
- Spartan Mechanical Engineers
- Spartan Superway
- Steel Bridge Team

Interest Based — These groups center on a shared experience and/or interest.

- Black Alliance of Scientists and Engineers
- Bridge Engineering Student Transition Team
- Computer Electronics and Networking Technology Club
- Engineering Ambassador Program
- Engineers Without Borders
- Girls Who Code Loop
- New Heights
- Out in Science, Technology, Engineering, Mathematics

- Promethians
- Silicon Valley Engineers
- SJ Hacks
- Society of Asian Scientists and Engineers
- Society of Latino Engineers and Scientists
- Society of Women Engineers
- Startup Grind SJSU
- STEM NOW
- The AI Society
- Veterans Student Organization
- Women in Aviation

Honorary/Professional — These groups recognize strong academic performance and/or commitment to a specific field.

- Alpha Eta Rho, Aviation Fraternity
- Chi Epsilon, Civil Engineering Honor Society
- Colony of Alpha Omega Epsilon
- Eta Kappa Nu
- Pi Tau Sigma, Mechanical Engineering Honor Society
- Tau Beta Pi, Engineering Honor Society

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