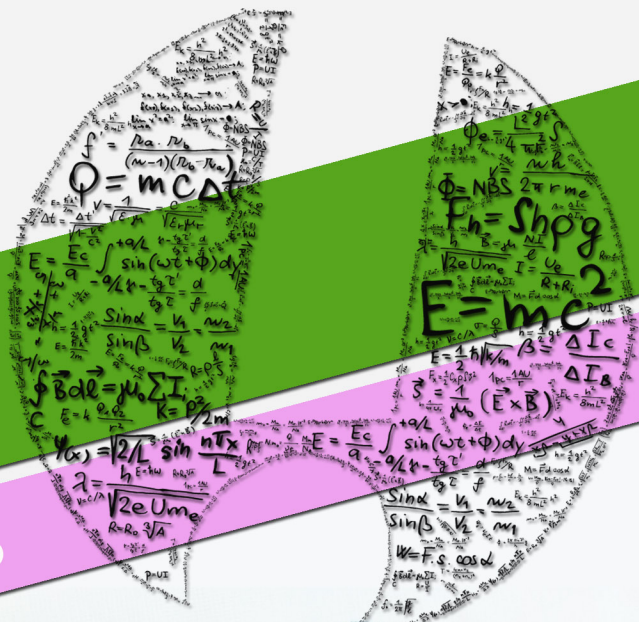


IDEA STUDENT CENTER

QUARTERLY NEWSLETTER

VOLUME 2 . ISSUE 4 . SPRING 2016



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SPOTLIGHT



CHYHEIM
JACKSON - BURGESS

B.S. COMPUTER SCIENCE
CLASS OF 2016
+NATIONAL SOCIETY OF
BLACK ENGINEERS
+IDEA SCHOLAR

WE SAT DOWN WITH RECENT ENGINEERING GRADUATES, CHYHEIM AND IVAN, TO ASK THEM QUESTIONS THAT COULD PROVIDE SOME INSIGHTS FOR CURRENT ENGINEERING STUDENTS AT UC SAN DIEGO'S JACOBS SCHOOL OF ENGINEERING.



WHAT ARE YOUR PLANS AFTER COMMENCEMENT? WE ALL WANT TO KNOW!

After graduation I will be joining Google full time as a software engineer on the YouTube Gaming team.



WHAT WAS YOUR FAVORITE ENGINEERING CLASS? WHY?

My favorite engineering class is CSE30 with Professor Ord, which is designed to introduce students to C and assembly programming. CSE30 did a lot more for me than just show me the ways of C and SPARC Assembly. It was the first course in the computer science curriculum where I started to learn how computers actually work. I love this about the course, because it answered a lot of questions that I had about computing. It covered a wide range of both software and hardware topics that are fundamental to the major. The things that I've learned in that class have carried over to nearly all of my CS upper division courses and to my internships.



WHAT WAS YOUR MOST MEMORABLE EXPERIENCE AS AN ENGINEERING STUDENT AT JSOE?

My most memorable experience as an engineering student at JSOE was working as a CSE tutor. Tutoring put me in a great position to find amazing internships with top companies. It also connected me with the wonderful staff and faculty of the CSE department. Through tutoring I met a lot of my amazing peers who went on to become some of my best friends. My experiences as a tutor helped shape my overall college experience in an amazing way, because it helped me develop friendships and bonds that I believe will remain strong beyond graduation.



IF YOU HAD TO DESCRIBE YOUR FOUR YEARS AS AN ENGINEERING STUDENT USING A SONG TITLE, WHAT SONG WOULD THAT BE?

Work (Rehab Remix). Yes, Rihanna.

SPOTLIGHT



IVAN TORRES

B.S. MECHANICAL ENGINEERING
CLASS OF 2016
+SOCIETY OF HISPANIC
PROFESSIONAL ENGINEERS
+IDEA SCHOLAR



WHAT ARE YOUR PLANS AFTER COMMENCEMENT? WE ALL WANT TO KNOW!

At the moment, I'm working as an Instructor for iD Tech Camps, teaching young students about robotics and Arduino programming. Then, I'll be serving as a Peer Facilitator for the IDEA Center Summer ENG Institute. I'm still currently seeking a full-time job in the San Diego area and will be applying to graduate school this Fall.



WHAT WAS THE MOST VALUABLE THING YOU LEARNED AT UC SAN DIEGO?

One of the most valuable things I realized throughout my time at UC San Diego is that being a leader isn't simply a title you attain, but rather it's a never-ending path we choose to take toward not only bettering ourselves, but also those around us. It's a means of motivating, inspiring, and paving the way for others to follow in our steps, allowing us to grow as whole.



IF YOU COULD SEND A MESSAGE TO THE PAST, WHAT ADVICE WOULD YOU GIVE TO YOUR FRESHMAN SELF?

I would tell myself to get involved as soon as possible. Whether that may be in an organization or project team, it's crucial to find that community and group of friends who will be there to support you and help you grow throughout college. The sooner you get involved, the more potential you have to succeed.



IF YOU HAD TO DESCRIBE YOUR FOUR YEARS AS AN ENGINEERING STUDENT USING A SONG TITLE, WHAT SONG WOULD THAT BE?

Good Times, Bad Times - Led Zeppelin

“THE SOONER YOU GET INVOLVED,
THE MORE POTENTIAL YOU HAVE
TO SUCCEED.”

CONGRATS
GRADS!





IDEA Scholars Graduation Reception

CONGRATULATIONS IDEA SCHOLARS

Class of 2016

Yoseph Alemayehu, Chemical Engineering
Jose Banuelos, Engineering Sciences
Lovelle Cardoso, Computer Science
Jennifer Cordero, Chemical Engineering
David Dantas, Computer Science
Daniel Gehlbach, Bioengineering
Jasmin Hurtado, Bioengineering
Chyheim Jackson-Burgess, Computer Science
Allison Kensiski, NanoEngineering
Lina Lopez, Chemical Engineering
Nicholas Montoya, Mechanical Engineering
Carlos Munoz, Chemical Engineering
Rogelio Nunez Flores, Bioengineering
Gladys Ornelas, Bioengineering
Barbara Samano, Aerospace Engineering
Sarah Segobia, Chemical Engineering
Anjelica Thang, Computer Engineering
James Torres, Structural Engineering
Ivan Torres, Mechanical Engineering
Nathan Woodward, Mechanical Engineering

We are increasing
the graduation rate of
diverse undergraduate
engineering students through
our IDEA Scholars Program!

Graduation Rates of IDEA Scholars:

77% 2011
Cohort

74% 2012
Cohort

Learn more about the IDEA Scholars program at tinyurl.com/ideascholars

NSBE CONVENTION 2016 BOSTON, MASSACHUSETTS



The UC San Diego NSBE chapter attended the 42nd Annual NSBE Convention in Boston, M.A. Visit nsbe.ucsd.edu for more info on the student chapter.

A NIGHT OF EXCELLENCE

ANNUAL RECOGNITION BANQUET

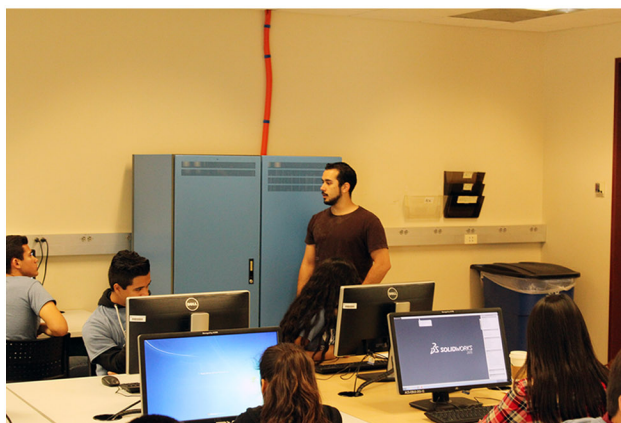
NSBE, SHPE, AND SWE

MAY 27, 2016



EMPOWER 2016

SHPE ANNUAL HIGH SCHOOL CONFERENCE
APRIL 23, 2016



Empower is an annual, free, all day high school conference hosted by the Society of Hispanic Professional Engineers Chapter at UC San Diego. This event exposed 100 students from 8th through 12th grade to engineering and to empower them to pursue a path towards higher education in the STEM field. From bioengineering to aerospace engineering, students were able to participate in a wide range of engineering activities. For more information, visit shpe.ucsd.edu.

Ring Ceremony

Jacobs School of Engineering

See photos and videos of
the ceremony at
tinyurl.com/JSOEring2016

On June 11, 2016, the Triton Engineering Student Council (TESC) and the IDEA Student Center presented the 10th Annual Ring Ceremony for the graduating class of 2016. Department Awards for Excellence and School Wide Awards were presented to students and faculty in the engineering community who have been recognized for their outstanding leadership and exemplary service.

DEPARTMENT AWARD WINNERS

BIOENGINEERING

Melody Dong & Amanda Beck

COMPUTER SCIENCE AND ENGINEERING

Huang Li & Sandra Hui

STRUCTURAL ENGINEERING

Heryang Lee

NANOENGINEERING

Brenda Ximena Lee Wei

ELECTRICAL AND COMPUTER ENGINEERING

Davis Liang

MECHANICAL AND AEROSPACE ENGINEERING

Ciara Dooley

SCHOOL WIDE AWARD WINNERS

STUDENT OF THE YEAR

Chyheim Jackson-Burgess, Computer Science

DIVERSITY AND COMMUNITY SERVICE

Ivan Torres, Mechanical Engineering

FACULTY OF THE YEAR

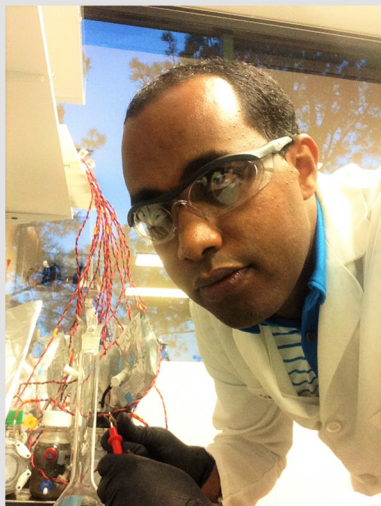
Diba Mirza, Computer Science

2016 JACOBS SCHOLARS GRADUATION RECEPTION



Dr. and Mrs. Jacobs with the graduating Jacobs School Scholars: Priyanka Bisarya, Gunnar Gleisner, Edwin Huh, Sneha Jayaprakash, Karah Kingsbury, Melissa Najmabadi, Aaron Nozaki, Vishaal Prasad, & Kevin (Haikuo) Yin

CONGRATULATIONS!



MEDHANIE MARIKOS TEFAMARIAM
BIOENGINEERING CLASS OF 2016

Medhanie, who is also a McNair Scholar, was admitted into the Skaggs School of Pharmacy at UC San Diego. He plans to pursue a dual doctorate degree, PharmD/PhD. He transferred to UC San Diego in 2013 from a local community college in San Diego with academic excellence. He has been working, researching, and volunteering in cutting edge research positions and outreach programs. In his research of designing a wireless electrocardiogram (EKG), he created a prototype that can increase the speed of heart disease treatment. He also joined the Microbial Fuel Cell (MFC) research at the J. Craig Venter Institute where he worked on improving sanitation and eliminating waterborne diseases in the developing nations.

Medhanie is also a teaching assistant and tutor at the IDEA Student Center and he volunteered in reaching young students from disadvantaged community to join the STEM field. He helped to increase knowledge and interest in engineering and medicine among K-14 students. Medhanie emigrated to the United States in 2009 as a refugee from Eritrea. Medhanie has faced displacement from his homeland and other life challenges, but continues to strive for excellent and give back to surrounding communities as a naturalized U.S. citizen.



JULIAN RAMIREZ
CHEMICAL ENGINEERING, FIRST-YEAR PHD STUDENT

Congratulations to Julián for winning the prestigious Graduate Research Fellowship Program award from the National Science Foundation! As part of Prof. Darren Lipomi's research group in the Department of NanoEngineering, Julian is developing a new type of wearable sensor based on metallic nanoparticles on graphene. Julián is a first-generation college student from Chula Vista, who spent his formative years working in his father's mechanic shop, which helped shape his interest in engineering. Julián's mother, a social worker, helped instill in him a strong social conscience, which manifested in his work with the Border Angels. Julián is a highly accomplished researcher, with nine peer-reviewed publications during his previous research with Prof. Joseph Wang. He is also a recipient of a fellowship from the Initiative for Maximizing Student Development.



OSCAR GUERRERO

B.S. ELECTRICAL ENGINEERING CLASS OF 2016

Oscar was awarded the prestigious GEM Fellowship which he will be using at Stanford University this coming fall. Oscar was a member and mentor for the Society of Hispanic Professional Engineers (SHPE) and Vice President External of Eta Kappa Nu (HKN). He has also conducted research for Prof. Shadi Dayeh from the Electrical and Computer Engineering department. Oscar was a first-generation, transfer student to UC San Diego whose parent family emigrated from Mexico. Unfortunately, as Oscar sought to become the first in his

family to attend a university, his father suffered a debilitating injury which resulted in job loss. Oscar used this adversity to ignite his vigorous search for methods of funding his studies and to help support his family. He succeeded in obtaining a NACME scholarship, a California Space Grant UROP Research Scholarship, and many travel grants to attend and present his research at various conferences. Oscar continues to excel forward and actively provide guidance and assistance to many of the students he encounters.

BOUCHET GRADUATE HONOR SOCIETY

2015 - 2016 UC SAN DIEGO PH.D. CANDIDATE COHORT

JOSHUA FRANCOIS

BIOENGINEERING

JAHIR GUTIERREZ

BIOENGINEERING

STEVEN NALEWAY

MATERIALS SCIENCE AND ENGINEERING

Congratulations to Joshua Francois, Jahir Gutierrez, and Steven Naleway, who have been selected for the 2015-2016 cohort of the UC San Diego chapter of the Bouchet Graduate Honor Society. A total of ten graduate students were selected for this prestigious honor.

Named for the first African American doctoral recipient in the United States (Yale University, Physics, 1876), the Edward Alexander Bouchet Graduate Honor Society (Bouchet Society) recognizes outstanding scholarly achievement and promotes diversity and excellence in doctoral education. In the spirit of Bouchet's commitment to these pursuits both within and without the academic realm, inductees into the honor society bearing his name should also exhibit these qualities.

Reference: <https://grad.ucsd.edu/degrees/diversity/bouchet-graduate-honor-society/index.html>

IDEA OVERNIGHT PROGRAM 2016

APRIL 7 - 9, 2016

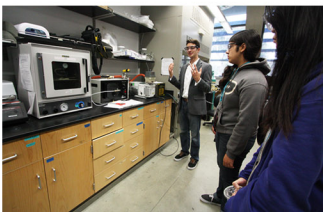
This is an annual invitation-only program for select high school seniors who have been admitted as engineering majors for Fall of 2016. This free 3-day, 2-night program provided participants an opportunity to experience the university environment and campus life at UC San Diego, network with other admitted high school seniors & current college students, and learn about campus resources. Participants were paired up with a current UC San Diego engineering student who served as their host and mentor throughout the duration of the program. We continue to increase the yield/acceptance rate of undergraduate students from historically underrepresented groups, including economically and socially disadvantaged students to the Jacobs School of Engineering

68
HOSTEES

48
HOSTS

56%
**ACCEPTANCE
RATE**

More than double that for incoming underrepresented minority and first generation freshman students at the Jacobs School of Engineering



BREAKFAST WITH THE DEANS

TRITON DAY - APRIL 9, 2016



42 Admitted Freshmen

from historically underrepresented groups in engineering and their family attended

79% Acceptance Rate

which is close to 3x that for our total acceptance rate for this student population

TRANSFER BREAKFAST WITH THE DEANS

TRANSFER TRITON DAY - MAY 7, 2016



31 Admitted Transfer Students

from historically underrepresented groups in engineering and their family attended

74% Acceptance Rate

which is more than double that for our incoming underrepresented minority and first generation transfer students at the Jacobs School of Engineering

IDEA Student Center
9500 Gilman Drive, MC 0429
La Jolla, CA 92093-0429

GIVE
now»

If you would like to give to the
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visit giveto.ucsd.edu



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Fax: (858) 822-5870
Email: idea@soe.ucsd.edu
Location: Jacobs Hall (EBU-1), Room 1400