

ENGINEERING

SUMMER ACADEMY at PENN

ALUMNI NEWS

2015

Dear ESAP Alumni,

As Penn becomes blanketed in the gold, red, and brown of autumn, understand that we are already looking towards the warm summer months as a new cohort of ESAP students begin to express their interest in the program. They are starting to inquire about our curriculum, our procedures, and our mission. However, what they truly wish to understand is how they can assert themselves as ideal candidates for participation. In this way, we point to you.

While we answer their queries, we think about the enthusiasm, comradery, and focus you demonstrated when you were here. We looked on as you excelled in showcasing your ability to think critically, creatively, with ingenuity and acute attention for the details. As we describe the students we select for our program, we envision your craftsmanship and the look on your faces when you solved complex problems. In short, we describe the qualities

that you brought to the program, because your ability to remain present and engaged truly expounded upon our aims to enhance your understanding of the engineering sciences.

It is my hope that we challenged you to push beyond your boundaries and you were able to start honing-in on your passions. Having worked alongside some of the greatest minds in engineering, you are certain to reach your full potential. As you move forward with your plans to create and inspire, please remember your time with us in ESAP and trust that your presence in our program is an indicator for greatness!



SHAWNA M. PATTERSON, PH.D.
ESAP Residential Director



NANO Final Presentations

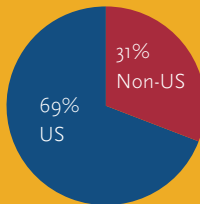
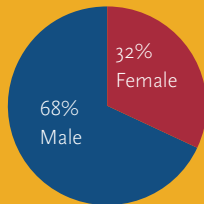
ESAP 2015: Just the Facts

Top Foreign Countries & U.S. States

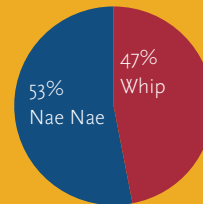
Country	State
1. China	CA
2. Korea	PA
3. Taiwan	NY
4. U.K.	NJ
5. Canada	FL

19 FOREIGN COUNTRIES REPRESENTED
24 US STATES REPRESENTED

Enrolled Students



Watch Me



ESAP ALUMNI UPDATES

Xavi Loinaz

2015 BIOT

I am a junior at my high school. The Biotech program actually heightened my interest in biology and now I am taking AP Biology instead of AP Chemistry as originally planned.

Harrison Toig

2015 BIOT

I am currently a senior in high school. Doing my best to get applications completed and get SAT's out of the way.

Jason Xian

2015 BIOT

I'm back in school now and it's going pretty well. My Science Olympiad team is getting ready to gather new members and my Science Bowl team has been practicing weekly. After ESAP Biot's movie presentations with Dr. Bucki I was inspired to bring that fun activity to my school. Next week my United Sciences Club will be watching the movie Interstellar and then doing a club discussion on it. I hope to explain to my peers about the implications of cloning when we watch Jurassic Park or other movies. It all started with Biotech.

Ivan Kok

2015 CGRA

I'm taking an introductory computer class "Fundamentals of Programming" at Lehigh University.

Nathan Lerner

2015 COMP

I am continuing to use the things I learned in CGRA to work on new projects.

Pranav Panganamamula

2015 COMP

I'm now in my Junior year of high school.

Khushali Mashruwala

2015 NANO

I am applying to colleges and working adamantly towards my IB diploma and the success of my robotics team Hydra Robotics. Go Hydra!

Samia Muqeen

2015 NANO



I am currently in my senior year of high school at Dhahran High School in Saudi Arabia. I'm super excited to graduate but also sad as well as stressed out with college applications and school. I currently participate in Habitat for Humanity (Secretary) National Honour Society Model UN Biomedical Club Robotics Club and the Young Women's Association. I enjoy most of my classes my favourite being AP Computer Science. The experiences and knowledge that I gained from ESAP are tremendously helpful in managing my time and studies. I am very grateful to have been a part of such an amazing program.

Matteo Sciolla

2015 NANO

I'm finishing my final year of IB at a school in Milan.

Stella-Noella TETERO

2015 NANO



I am now in my senior year and I am preparing for my National Exams in November my SAT subject tests my TOEFL and polishing up my early decision application to Columbia University.

Oliver Wood

2015 NANO

I am participating in my school's student council. I also run for my school's cross country team and plan to run for them during indoor and

outdoor track. I plan to participate in our school's upcoming musical. I am taking this junior year seriously by AP loading now so that I can take some more fun courses during my senior year.

Ruilin Feng

2015 NETS

College Application! I am having a busy senior for applying colleges!

Philippe Pangestu

2015 NETS

I'm currently making a phone application for my school.

Xiaoluan Yan

2015 NETS

I'm in my senior year of high school preparing for college applications.

Yifan (Frank) Yin

2015 NETS

I'm going through the college application process at Greensboro Day School.

Michael Berk

2015 ROBO

I am publishing my iPhone app to the App Store and playing lots of basketball.

Yanjun Chen

2015 ROBO

After attending the program I was inspired when I returned to China to build a robot that can write Chinese calligraphy on its own. It is super exciting and is actually helping to determine my future career path.

Xinran Han

2015 ROBO

I'm currently focusing on school work & preparing for another robotics competition. I really learned a lot of useful things in the ROBO program :)

Ata Yardimci

2015 ROBO

I'm a junior now trying to improve my grades as much as I can to be accepted to Penn.

Christine Callinan

2014 BIOT

I am currently a senior at Deerfield Academy and am looking forward to studying bioengineering in college!

Weiyl Ding

2014 BIOT

Orgo is awesome!

Angelica Du

2014 BIOT



This past summer I volunteered to teach science for Peninsula Bridge an educational support program for highly motivated under privileged middle school students from all over the San Francisco Bay Area. I had the opportunity to share interesting topics and conduct fun projects some of which I learned from SAAST's very own Biotechnology program. My students built egg-drop parachutes created play-doh cells and candy atoms made microscopic observations and even programmed Lego Mindstorm robots to dance. With fall just around the corner I'm compiling quite the list of responsibilities. Along with captaining my varsity volleyball team leading the Asian Culture Club and editing Vantage Magazine I've just begun my school admissions ambassador duties this year representing my school in private high school fairs open houses and campus tours. Also this year I was named a National Merit Scholarship Semifinalist and inducted as a lifetime member to Crystal Springs Uplands' chapter of the Cum Laude Society.

Arielle Isaacs

2014 BIOT

As a sophomore I was on my school's varsity robotics team and we made it to the Super Regional Competition!

Yoon Namgoong

2014 CGRA

I graduated from the 2014 SAAST Computer Graphics program. I have to say SAAST was the most memorable and enjoyable summer camp I have ever attended. On top of this great experience I learned so much and I feel lucky to possess the knowledge I gained over the 3 weeks. With the skills I learned during my time in SAAST I decided to weave these skills into a small hobby of my own. Although it took many many tries in the end I managed to successfully 3D print a mechanical clock. I found the joy in using what I learned in SAAST to further my learning experience on my own getting to learn how clocks (and

gears) work by creating these clocks. Other than my small hobby I am currently an intern in the National University of Singapore (NUS) Bioluminescence Department and learning a lot of statistical engineering. So much more to explore as a student! SAAST was great!!!

Julia Fiksinski

2014 COMP

I'm a senior at Brownell-Talbot in Omaha NE. SAAST helped me to develop a strong interest in computer science. I compete in VEX robotics and I hope to pursue computer science and engineering in college.

Rishab Kedia

2014 COMP

Currently I am in the middle of my senior year of high school and am applying to college for a Computer Science major a field which I was able to explore through the SAAST program.

Morgan Sorbaro

2014 COMP

I participated in the Summer Academy at Penn Engineering last summer and it sparked my interest in pursuing an engineering internship this summer. Because of that I applied to SEAP an engineering internship with the government and was awarded an Internship working with the Naval Submarine Medical Research Lab at the New London Submarine Base. This was an amazing opportunity where I used the arduino to make a poster that gives actionable information at the point of decision to educate people working in engineering labs on hearing conservation. The poster used an LED display to light up lights when the noise volume was at a dangerous level and then gave potential actions for the viewer to do so they could protect themselves. I am excited to do an independent study in school this year where I will take this poster to the next level and have it send SMS text messages when noise levels exceed dangerous levels.

Jessica Li

2014 NETS

I will be a freshman at Harvard College starting this upcoming semester where I plan to study economics and computer science. Extracurricularly I am currently interning as a blogger for Scientista serving as volunteer coordinator and manager of Google AdWords and Google Analytics for Hands4Others leading the International Professors Project

Environmental Science Student Group and am the manager of The Concord Review Academic Coaching Service.

Karan Agrawal

2014 ROBO



Over the summer of 2015 I worked as a Young Mentor and Summer Intern at a program called "ESPIRE" which seeks to teach practical and theoretical aspects of Entrepreneurship to teenagers and helps students launch their own start-ups in the marketplace. It was a very exciting summer and I hope to continue learning in the field of Entrepreneurship in college as well. My experience at SAAST was unforgettable.

Zhengyi Luo

2014 ROBO

Penn!!!

Kabir Peshawaria

2013 BIOT

I just graduated from my high school in Malaysia. However I will not be attending university this fall. I'm taking a gap year to work in India at a tech start-up as a software developer.

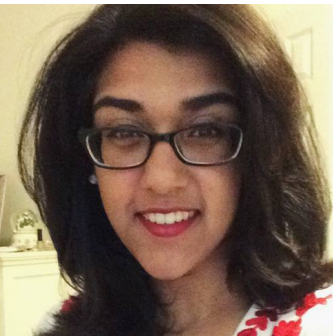
Daniel Solinsky

2013 CGRA

I am currently starting my senior year in high school and applying to UPenn!

Anisha Khosla

2013 NANO



SAAST 2013 I'm currently a sophomore at the University of Rochester pursuing a B.S. in Biomedical Engineering and a minor in Mechanical Engineering. In my free time I am a crew-chief trainee in the student EMT group MERT I am president of our chapter of She's The

First (nonprofit aimed to provide scholarships for females in low-income countries) and I am secretary of the Biomedical Engineering Society. I am also a sister in the Chi Omega sorority a teaching assistant for Introduction to BME and research assistant in a lab that develops mechanically-accurate models of human organs using a hydrolymer for use as practice in an operating room setting.

Jay Fleischer

2013 ROBO

I work on Penn's electric race car and launch high altitude balloons with the aerospace club. I'm also building a quadcopter from scratch in my spare time.

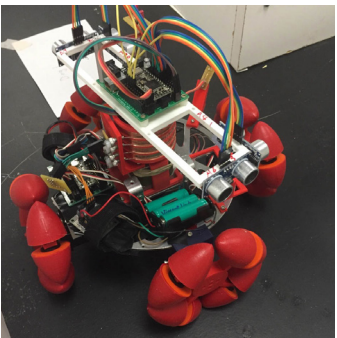
William Kayat

2013 ROBO

I graduated from the SAAST Robotics program in 2013. I'm currently a freshman at the University of Pennsylvania majoring in Computer science.

Simon Shao

2013 ROBO



Omni Directional Robot designed with Solidworks. 3D printed wheels. slip ring conduct for sensors fire extinguishing capability. I'm really thankful that I learned Solidworks at SAAST.

Rupal Desai

2012 BIOT

I graduated from the SAAST program in 2012. I am currently studying at the University of Michigan. I will be graduating in May with a degree in International Studies.

Joshua Hellerstein

2012 ROBO

I am a freshman at MIT interested in EECS and entrepreneurship. I have placed 2nd at a regional hackathon in Miami FL using facial recognition software to find and connect users on social media. I plan to continue participating at HackMIT Yhack and other collegiate hackathons during the next few months. I currently have a startup which is closing a seed round investment.

William Clarke

2011 COMP

I worked at Google this past summer as a Hardware Engineering Intern.

Angel Lee

2009 BIOT

I am 2009 SAAST graduate. I attended Brown University and currently hold a role in Business Strategy & Analytics at LinkedIn.

Beatriz Leite

2009 NANO

In Brazil to become a doctor you need to go to college for 6 years. I'm on the last semester of my 4th year as a medical student and SAAST influenced me to decide on a career in medicine. I loved our contact with robotics and medical apparatuses that were being developed so I decided to follow that path.

Pin-Wen Wang

2009 NANO

I'm working as an ASIC design verification engineer at Nvidia in California

Samantha Farmer

2008 BIOT

I finished my Bachelor's in CBE and Master's in Materials at UPenn in 4 years.

Alysia Korn

2008 BIOT

I am a second year Master's student at SDSM&T. Last year I was a teaching assistant and this year I have a research assistantship. This fall I will be presenting my ongoing research at GSA where I am part of the On to the Future Program.

Daniel Flores

2008 COMP

I'm currently working at Microsoft on the HoloLens team.

Paras Sanghavi

2008 COMP

I've been a Software Developer at Pivotal Labs for the last two months and loving it!

Aubrey Shapero

2008 NANO

I'm working on a Ph.D. in MEMS for medical applications at Caltech

Bogo (Bogumil) Giertler

2007 COMP

I've been an Engineer at Dropbox since June '15. Before that I worked on Spotify's iOS client for 2 years. Life is good!



Photo Credit: Kenny Chui, Grace Huang, and Melissa Chi

School of Engineering and Applied Science
University of Pennsylvania
220 S. 33rd Street
111 Towne Building
Philadelphia, PA 19104

SUMMER ACADEMY at PENN

ENGINEERING

