

2023-2024

Fall-16

Winter-16

Spring-16

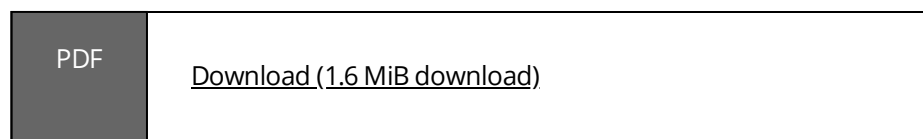
Expected graduation date from college/graduate school? (only students graduating in 2023 or later are eligible) yyyy-mm-dd 2026-06-16

Major (Area of Study) Structural Engineering

Proposed Occupation Structural Engineer

What is your cumulative GPA listed on your transcript? **Note:** Cumulative minimum requirement is a 3.0 GPA. 3.96

Attach a copy of your most recent transcript here. Be sure that all classes and cumulative GPA are clearly visible and dated within the last 6 months. The GPA listed on your transcript must match what was entered into the GPA field. If you do not provide your transcripts now, and you win a scholarship award, you will be required to provide your transcript before your check can be issued to you.



List the name of the previous school you attended. Acalanes High School

List the dates you attended. (i.e. 9/6/20 - 6/1/22) 9/10/2018

Degree Received (i.e. general education, etc.) 5/27/2022

Please describe your financial needs in **detail**. Be sure to explain any financial obstacles or hardships and how this scholarship would impact your ability to pay for your education. We encourage you to detail tuition, living expenses, how you are planning to or currently paying for college, how many years you are attending, etc. This provides the scholarship committee with a full understanding of what your financial situation is.

I am the son of a single self-employed immigrant mother and a brother of a 3rd year mechanical engineer who is attending Cal Poly Pomona. I've had to fore-go many educational and extracurricular activities as a result of our financial standing. My family has been lower class for my whole life and it has made me very reluctant to spend money on experiences that could benefit me educationally. We have stopped receiving any support financially from my father for over 6 years now and has been out of our lives for that long as well. Receiving this scholarship would allow me to devote more time and thought towards my studies rather than working a minimum wage-job to help pay for my tuition, or by thinking about how future me will pay for the loans I will inevitably take. I have had to start an on-campus job for only 4 weeks as to make as much money as I could while still being able to balance classes. I had to quit this job because the current quarter I am in has been extremely intense and time-consuming. My tuition is estimated to be \$37,000 per year but with the financial aid I am receiving from fafsa and other grants, the cost comes down to around \$10,000. I am currently paying for college with money I have saved up as well as scholarships of financial need that I have received for my 1st year. I plan to continue to apply for scholarships for all four years and work an internship every summer starting my sophomore summer. I plan to attend 4 years with a possibility of a 5th if I decide to join

the B.S./M.S. program that lets me take master's degree courses during my fourth and fifth years to get a master's degree. Overall, receiving this scholarship will relieve some stress from my mind when it comes to paying for tuition, as well as it will give me more time to focus on my studies and will get me into the Structural engineering work force quicker as I wouldn't need to keep working minimum-wage campus jobs.

Have you received, or do you plan on receiving any other sources of financial aid? ☒ Yes

List sources of other financial aid below. ALDV scholarship

Are you currently in the military? ☐ No

Tell us about any additional commitments you have outside of school, such as hours at work, family, volunteer opportunities, extracurricular activities. How do you balance your time and resources?

I am involved in the Seismic Design Team at UCSD which takes up 20 hours per week during the construction phase of the balsa wood tower. During my Sophomore year I intend on joining SEDS (STUDENTS FOR THE EXPLORATION AND DEVELOPMENT OF SPACE) which will take up even more hours as we build a rocket. I also skate and draw in my free time. I ration my time between my activities by designating more time for the things that are most important to me at the time. During the competition phase of Seismic Design I would devote more of my time into that.

Please attach your resume listing any work, volunteer, or extra curricular experiences here.

PDF	Download (84 KiB download)
-----	--

Select 1 of the 4 essay questions. Where do you see yourself in 10 years? In 20 years?

Essay Response #1 (**Do not include your name or company affiliation (if applicable) in your essay.** Be sure to directly address the question asked. Spelling, grammar, presentation count. Maximum of 750 words)

When I think about the future, it brings me a lot of peace of mind. I have learned to set passionate goals while not being too disrupted by alternate outcomes. Prior to applying to college, I set my sights on becoming an independent architect like Frank Lloyd Wright, drawn by my love for design and precision stemming from my hobbies in origami and drawing. As I received acceptance letters, I noticed that I had been accepted into UCSD as a Structural Engineer. After researching the prestige of both the school and the major, I decided to take an alternate path to the same goal of becoming an architect. Once in college, I joined the architecture club that redesigns places on campus and presents the ideas to the actual campus designers in hopes of creating something that could be implemented into the school. I talked to upperclassmen who had experience interning at architectural firms and shared my aspirations to get a bachelor's in structural engineering then a master's in architecture. While they were supportive, they helped me realize that if I truly enjoyed the mathematics side of structural engineering, I should stick to it as a career, as it is more in demand and prestigious in society. I took their advice into consideration and continued my studies. Over time, I began to realize that I was made for structural engineering, and my skills would be better put to use as a structural engineer. As a first-year student, almost done with my first three quarters of college, I now have the desire to become an extremely proficient structural engineer and a master of my craft. I want to eventually be signing off on some of the biggest projects the world has ever seen and managing my own team of engineers. Over time, I will seek to discover revolutionary ways of structural design, and I never want to lose sight of why I became an engineer: my love for math and design. In summary, my plans for the future are ever-changing, but I know that I want to be financially stable, contribute to something bigger than myself, and, most of all, be happy.

Select Your Second Essay Question. If money was no object, what would you want to accomplish and why?

Essay Response #2 (**Do not include your name or company affiliation (if applicable) in your essay.** Be sure to directly address the question asked. Spelling, grammar, presentation count. Maximum 750 words)

I believe that nothing achieved locally on this planet has any real significance in the grand scheme of the universe. If money were not of any concern to me, I wouldn't need to worry about the job market or the possibility of not being needed. Therefore, I would want to pursue my passion and undying interest in the exploration of space. My ultimate ambition would be to contribute significantly to the advancement of space exploration and have my name solidified in history. As a structural engineer, I would love to focus on designing and constructing aerospace structures that can withstand the harsh conditions of space.

I strongly believe that investing in space exploration and colonization is a worthy goal that transcends economics and politics. By pooling our resources and knowledge, we could achieve incredible things and make significant progress towards becoming an extraterrestrial species. Designing structures that can survive the extreme conditions of space is a fascinating and challenging endeavor. With no monetary constraints, I would be able to focus solely on this aspect of engineering and contribute to the progress of humanity's journey towards becoming an extraterrestrial species. I feel that the thing held most important to people around the world is money. My belief is that every historical event or strife between nations of power is insignificant when compared to the light-years of space that are just right outside our atmosphere. And with that, I would strive to be a leading force in the advancement of technology to get us out there.

Letter of Recommendation #1

DOCX	Download (7 KiB download)
------	---

Log in to unitedcontractors.awardsplatform.com to see complete application attachments.

MAJOR(S) : Structural Engineering

-----TRANSFER CREDIT-----

Advanced Placement Credit

ATTENDED: 05/21 - 05/22

TRANSFER CREDIT: 24.00

-----ACADEMIC EVENTS-----

UC ENTRLVL WRITNG REQ'T SATISFD

09/14/22

AMER HIST& INST REQ'T SATISFIED

12/02/22

-----COURSE INFORMATION-----

Fall Qtr 2022 Undergraduate

CHEM	6A	General Chemistry I	4.00	A-	14.80
ECON	1	Principles of Microeconomics	4.00	A	16.00
MATH	20B	Calculus/Science & Engineering	4.00	A	16.00
SE	1	Intro. to Structures & Design	4.00	A	16.00
TERM CREDITS PASSED			: 16.00	TERM GPA CREDITS	: 16.00
TERM GRADE POINTS			: 62.80	TERM GPA	: 3.92
TERM HONORS			: Provost Honors		

Winter Qtr 2023 Undergraduate

MATH	20C	Calculus&Analyt Geom/Sci&Engrn	4.00	A	16.00
PHYS	2A	Physics-Mechanics	4.00	A	16.00
SOCI	2	The Study of Society	4.00	A	16.00
VIS	3	Intr/Art-Making:3-D Practices	4.00	A	16.00
TERM CREDITS PASSED			: 16.00	TERM GPA CREDITS	: 16.00
TERM GRADE POINTS			: 64.00	TERM GPA	: 4.00
TERM HONORS			: Provost Honors		

Spring Qtr 2023 Undergraduate

HDS	1	Intro/HumanDevelopmentScience	4.00		
MATH	18	Linear Algebra	4.00		
PHYS	2B	Phys-Electricity and Magnetism	4.00		
PHYS	2BL	Physics Laboratory-Mechanics	2.00		
SE	3	Graphical Comm for Eng Design	4.00		
TERM CREDITS PASSED			: 0.00	TERM GPA CREDITS	: 0.00
TERM GRADE POINTS			: 0.00	TERM GPA	: 0.00

-----SUMMARY-----

GRADE OPTION	UC-CRDTS ATTM	UC-CRDTS COMPL	CRDTS PSSD	UC-GPA CRDTS	UC-GRADE POINTS	UC- GPA
Letter	32.00	32.00	32.00	32.00	126.80	3.962
P/NP	0.00	0.00	24.00	0.00	0.00	0.000
TOTAL	32.00	32.00	56.00	32.00	126.80	3.962

-----End of Student Level-----

-----End of Transcript-----

Juan Villa Ordonez
(619) 327-6428, jvillaor@ucsd.edu

May 8th, 2023

To whom it may concern,

It is my pleasure to strongly recommend [REDACTED] for the United Contractors scholarship.

I am Juan Villa, the Co-Project Manager for the Seismic Design Team at UC-San Diego and a master's student studying to obtain a degree in structural engineering. I have worked with [REDACTED] this past year to compete in the Seismic Design Competition where we designed, analyzed, and constructed a high rise tower model that placed 5th against 40 schools from all over the world.

Throughout the year, [REDACTED] has stood out as he is always eager to learn and help out, shows great leadership skills, and is a very enthusiastic person who encourages and teaches others around him. [REDACTED] is currently one of the construction leads for the Seismic Design Team and has worked tremendously hard this year to improve and accelerate our construction methods including: putting in extra hours to determine the optimal laser cutter settings, host/manage construction meetings where he and other leads instruct new members on how to construct the tower model, and taking on a range of different projects/tasks that have enabled him to learn skills from different subteams and improve communication among these subteams.

Apart from all the work [REDACTED] did to improve the construction team, [REDACTED] showed a passion for learning as he would always be asking questions about our design, analysis or even architectural work and would attend meetings from different sub teams. He quickly learned how to use AutoCAD to interpret design drawings and create drawings to laser cut members, and voluntarily took on projects/tasks that allowed him to gain familiarity with other software such as SolidWorks and SAP2000. [REDACTED] is also always willing to help others and has taught several team members essential skills such as: laser cutting and CAD, that are needed for the seismic design team. I am extremely proud of [REDACTED] and his work this year and believe he would be an excellent candidate for the United Contractors

If you have any questions or would like to discuss more, please feel free to reach out at (619) 327-6428 or jvillaor@ucsd.edu and I'd be happy to elaborate more on [REDACTED] talents and qualifications.

Sincerely,
Juan Villa Ordonez