



UNLV

Charlie Vaughn Scholarship – Information

Spring 2021, due 5:00 pm Sunday February 28, 2021

Nevada Society of Professional Engineers'

Professional Engineers Foundation

About us: <https://www.nspe-nv.org/home>

Description: The Nevada Society of Professional Engineers offers up to a total of \$3,000 in scholarship funds for undergraduate students enrolled in the UNLV Howard R. Hughes College of Engineering.

NSPE-NV Eligibility criteria: To be eligible to apply, you must:

1. Be currently enrolled as an undergraduate major or pre-major in computer science, construction management or engineering at UNLV with a graduation date of **Fall 2021** or later.
2. Have a cumulative UNLV GPA of 2.75 or higher, and not be on academic probation or suspension.
3. Be a student member of NSPE and active in the NSPE Student chapter. It is FREE to sign up! Cost: \$0.
Go to this link to apply: <https://www.nspe.org/membership/type-membership/student-membership>

Application process: Submit the following materials in your application, assembled in this order:

1. The application form on the next page, completed with your information and the names of the ethics videos you will be viewing to discuss (See below for more information),
2. Unofficial copy of your UNLV transcript, obtained from your MyUNLV student center account, and
3. A copy of the record from NSPE national of your student membership.

Electronically submit all your completed materials as an assembled PDF file to engineering.scholarship@unlv.edu **by 5:00 pm on Sunday, February 28, 2021. Late or incomplete applications will not be accepted.**

Evaluation criteria: Prior academic performance, prior level of participation in student organizations related to professional activities (if you are sophomore, junior, or senior, one of the student organizations **must** be the student chapter of NSPE), and ability to answer questions coherently and knowledgeably if selected to participate in the in-person oral interview phase on the topics listed below.

Ethics Videos: Applicants are required to watch this video:

- **Engineering Ethics: Crash Course Engineering #27** <https://www.youtube.com/watch?v=5KZx81crb48>

Then watch any one of the following videos:

- **Toyota Unintended Acceleration Engineering Ethics** - https://youtu.be/df-N6_eUOGQ
- **Galloping Gertie – The Collapse of the Tacoma Narrows Bridge** - <https://youtu.be/KggyAZDpV6c> and <https://www.youtube.com/watch?v=mXTSnZgrfxM>
- **TED talk – Engineering ethics and Difficult Decision Making**
<https://www.youtube.com/watch?v=3FYt6gsoybM>
- **TED talk Ethics in the Age of Technology** <https://www.youtube.com/watch?v=iiAirfn-IBI>
- **TED talk The Ethical Dilemma we face on AI and autonomous tech,**
https://www.youtube.com/watch?v=3oE88_6jAwc
- **TED talk: Digital ethics and the future of humans in a connected world.**
<https://www.youtube.com/watch?v=bZn0IfOb61U>

Notification: Emails will be sent to all applicants notifying them if they have been selected to move on to the oral interview phase of the scholarship evaluation.

Results: Interviewees will be notified via their Rebelmail™ account regarding results of their application.

Questions: Please contact Christopher Parker, UNLV College of Engineering Advising Center at 702-895-2522 or email engineering.scholarship@unlv.edu



Spring Semester 2021

deadline 5:00 pm February 28, 2021

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Instructions

- (1) Read and understand the eligibility criteria and verify that you meet them before you apply.
- (2) Assemble the list of needed materials shown on previous page into one PDF file.
- (3) When you apply, please submit this form and all needed materials in one PDF file to engineering.scholarship@unlv.edu before **5:00 pm on Sunday, February 28, 2021**
- (4) Watch two ethics videos the list provided on the previous page, and take notes, enter below links for the ones you watched as you will be asked questions about them in the oral interview!
- (5) If you are selected for an oral interview, prepare in advance using links shown on the Information page.

Name _____

Address _____

Telephone number(s) _____

NSHE ID (found on the front of your Rebel Card) _____

Rebelmail™ address _____

Major & degree _____

The Online ethics video I watched and took notes on were: (enter the links below)

1) _____

2) _____

Undergraduate Class Standing (check one)

Freshman _____ Sophomore _____

Junior _____ Senior _____

Anticipated Graduation Date as semester, year,

(must be **Fall 2021** or later) _____

Attestation: I certify that the information given above is true and complete to the best of my knowledge. In addition, I authorize the UNLV Registrar, Financial Services and Howard R. Hughes College of Engineering to examine my academic records to determine my eligibility for this UNLV scholarship.

I understand that scholarships will not be awarded for cases where dropped or withdrawn classes cause me to fall out of compliance with the eligibility criteria.

Signature _____

Date _____



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Keep this page after submitting your application so that

If you are selected, you can follow these steps to prepare for the oral interview:

- (1) Watch, take notes on, and be prepared to discuss in the interview
- (2) This required video
- (3) Then the video you chose to watch on your application. As a reminder of what you wrote on your application form, please put an X or check mark below next to the video you chose to watch, take notes, and be prepared to discuss it should you be invited to participate in the oral interviews:
 - **Toyota Unintended Acceleration Engineering Ethics** - https://youtu.be/df-N6_eUOGQ
 - **Galloping Gertie – The Collapse of the Tacoma Narrows Bridge** - <https://youtu.be/KggyAZDpV6c>
and <https://www.youtube.com/watch?v=mXTSnZgrfxM>
 - **TED talk – Engineering ethics and Difficult Decision Making**
<https://www.youtube.com/watch?v=3FYt6qsoybM>
 - **TED talk Ethics in the Age of Technology** <https://www.youtube.com/watch?v=iiAirfn-IBI>
 - **TED talk The Ethical Dilemma we face on AI and autonomous tech,**
https://www.youtube.com/watch?v=3oE88_6jAwc
 - **TED talk: Digital ethics and the future of humans in a connected world.**
<https://www.youtube.com/watch?v=bZn0IfOb61U>
- (4) To be prepared to answer *additional questions* during the oral interview, review ***in advance*** the following three National Society of Professional Engineers' web links and take notes:
 1. Watch any 2 available webinars at <https://www.nspe.org/resources/students/student-resources>
 2. Watch NSPE code of ethics and Isaac Asimov's iRobot, <https://www.youtube.com/watch?v=4nHva24MOMU>
- (5) Prepare a short 5-minute oral presentation on each of the following topics.
 1. What are my most important ethical obligations as an engineering major, and in my future career?
 2. Describe my prior levels of participation in the student chapter of NSPE and other student professional organizations