

# What to expect for the Abstract

## ☐ FORMAT:

- Microsoft Word (or equivalent)-- PDF of WORD File is acceptable

## ☐ LENGTH:

- Abstract should be no more than 1 page, single-spaced, in 12-point type (Times New Roman font), single column with standard margins (1" top and bottom, 1.25" left and right)
  - Less than ½ page is not enough of description!
  - This is just a suggestion for sizing purposes

## ☐ DELIVERY:

- Abstract must be submitted via Desire to Learn (D2L) system no later than **June 23, 2023 3:30 PM Pacific Time**
- Links for submitting the assignments will be available under the "Assignment" section of D2L (<http://courses.uscdcn.net>)

## ☐ GRADING:

- Pass/Fail-- Required, but no letter grade given

# What to expect for the Abstract

## ❑ TEXT CONTENT:

- Identify which **TOPIC CATEGORY** you're proposing to use (see next slide), then Describe what **SPECIFIC SYSTEM** (or systems) within that Topic Category you're proposing to use
  - This description should be at least one paragraph of text
- Some optional topics you may want to include:
  - Why did you choose this Topic and System?
    - What do you expect to learn in your Research or in writing your Paper?
    - How might this benefit your career?
  - What experience do you have (if any) with this Topic/System?
  - Where will you find your Sources? (Research material)
    - Do you have any material on-hand? (Descriptions, Artwork, Videos, etc.)
  - What is the future of this Topic/System? What's next?

***Note: Graphics and References are allowed but are NOT REQUIRED in your Abstract!***

# SAE 549 Research Paper

## Topic Categories

USC Viterbi

School of Engineering  
*Systems Architecting and Engineering*

### ❑ Topic Categories:

- Automated (Self-Driving) Cars
- Smart Phones or Smart Tablet Computers
- Space Telescopes
- Robotic Systems (including Unmanned Space Exploration)
- Manned Space Transport
- Passenger Aircraft
- Airborne Platforms (Fighter / Bomber Aircraft / Helicopter / Unmanned Aerial Vehicles)

***Students should NOT propose an individual component or subsystem or process, but an entire vehicle (or phone/tablet) from one of the above categories in the above list.***

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## ❑ TEXT CONTENT:

- See <http://users.ece.cmu.edu/~koopman/essays/abstract.html> for other suggestions

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- That site suggests that content includes the following:  
(suggested ideas that are NOT required for this Abstract!)
- Motivation
- Problem statement
- Approach
- Results
- Conclusions

# Questions Regarding the Abstract?

- ❑ If you have any question regarding the Abstract:
  - You may call during office hours or e-mail questions to ask **SPECIFIC** questions that would not be of general interest
    - But we prefer that you use the Discussion Boards
  - Please use the General Discussion Board **BEFORE** the Due Date
  - Remember that all questions and all answers will be visible to all students, so please be sure to review the Discussion Boards before submitting your abstract!
    - We will attempt to answer questions in a timely manner but you will likely **NOT** receive a quick answer!
  - Please do not ask for instructor or student review of draft abstracts