

## Tell us about what you're planning to build and your level of commitment

Because we have a limited supply of hardware, we want to make sure we send them to people who are committed to building meaningful projects.

**Please only apply for free hardware if you plan on building and submitting a project.** Participants who receive free hardware and do not submit a project will be flagged by our team and possibly ineligible for future giveaways (up to our discretion).

### Title of your idea

DEEPBUGGIES

11/140

### What problem are you going to solve?

I want to make a robot with wheels. It would work without GPS to go to risk areas. It would be able to understand a route, analyze with the camera and be autonomous in driving. Moreover, it could move with other robots and detect enemies.

### What are you going to build to solve this problem? How is it different from existing solutions? Why is it useful?

This is not an autonomous car, it's a little robot. I think for the defense or for the coal mines, it's a very good idea!

### How does your solution work? What are the main features? Please specify how you will use the NVIDIA Jetson Nano Developer Kit in your solution.

I think, we can integrate TensorFlow inside the Jetson Card to understand the itinerary, to drive with autonomy and to detect the others buggies (friend or enemy).

### List the hardware and software you will use to build this (in addition to the required hardware and/or software).

- OpenCV
- TensorFlow
- Robot with Wheels
- Cameras
- Simulation Software OK

### Except for the NVIDIA Jetson Nano Developer Kit, do you already have the parts you need to build this project?

- ☒ Yes
- ☐ I have some parts
- ☐ No

### How many hours will you be able to spend on this project per week?

10-15

### How many total hours do you estimate this will take you to build?

7

### Tell us about yourself. What do you spend most of your time doing? What skills or experience do you have that will enable you to be successful in building this project?

I'm apprentice. So I spend a good time in my engineering school and an enterprise in the domain of electricity and embedded system.  
I'm lucky, my professors are OK to do this project at school during the project hours.

### Where should we ship the hardware if your idea is selected?

Tony CALVEZ

[Use another address](#)

### Explain how you will use AI, machines learning, and/or computer vision in your project. Describe any past projects you have worked on that make use of these AI, Machine Learning, or Computer Vision.

I have learned at school the computer vision with OpenCV and MatLab. I have different courses of TensorFlow.  
My last project it was a Django Website with Python and we have used the data of the API NASA.

### I agree that if I am selected to receive free hardware, I will submit a project to the AI at the Edge Challenge contest by January 31, 2020 at 11:59 PST.

- ☒ Yes, I agree
- ☐ No (Cannot submit if no)

### If I am not able to submit for any reason, I will contact the contest admins at [chchase@nvidia.com](mailto:chchase@nvidia.com) by January 16, 2020 in order to arrange a possible hardware return.

- ☒ Yes, I agree
- ☐ No (Cannot submit if no)

[Submit idea](#)

[Save for later](#)

### Frequently Asked Questions

#### What kind of idea is more likely to win free hardware?

We encourage creative ideas. For instance, pet feeders and home automation systems are very common nowadays and less creative. We also encourage realistic ideas. While solving world hunger is a great goal, it may not be realistic.

#### Do I have to submit a project entry if I receive free hardware?

Yes, all free hardware recipients must submit a project entry by the contest deadline. Free hardware recipients who do not submit a project entry will become ineligible to receive free hardware in future giveaways.

#### What happens if I receive free hardware and do not submit a project entry?

Participants who receive free hardware and do not submit a project may be ineligible for future giveaways unless the hardware is returned.

If you receive free hardware and become unable to submit a project, please contact us at [chchase@nvidia.com](mailto:chchase@nvidia.com) and let us know as soon as possible. We may choose to arrange for the hardware to be shipped to another participant.

#### How many NVIDIA Jetson Nano Developer Kit are available?

25 NVIDIA Jetson Nano Developer Kits are available. One device maximum per person.

#### How many ideas can I submit?

Each user is allowed to submit one idea.

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