

Project task - electric stroller/small toy vehicle

Work to be done:

1. Theoretical research, presentation of technical solutions that will be used in the car.
2. Creating a design (CAD - SOLID EDGE), but an equivalent program can also be used.
3. Creating components that can be made, and purchasing components.
4. Assembling the electronic part.
5. Evaluation of the finished final product.
6. Competition (who will drive the track faster).

Project goals:

To test students' knowledge acquired during studies by designing a 3D model and creating it real.

Rules:

1. Model drive (base, management) is the same for all participants;
2. The body of the model is made with a 3d printer.

Consultation:

During the project, students can consult the results of the work done so far with the teacher.

Evaluation criteria:

Scoring will be done as part of the participant/participant team comparison. The main evaluation criteria will be the comparison of the 3D model of the vehicle with the original. The following is also evaluated:

1. Subtlety of assembly;
2. Track departure speed (by time).

3D model evaluation criteria:

1. Existence of fine details (for each detail 1 p.):

(a) mirrors;

b) antenna;

c) anti-spoiler;

d) license plate and other.

2. The complexity of the created model.

3. Correct scale of the model relative to the original;
4. Windows;
5. The door.
6. Emblem;
7. Handles.
8. Front lamps (+1 p if lit);
9. Rear lights (+1 p if lit);
10. Correspondence of the car model to the originals.