Today we want to present you our new project that we created in the last 6 months.

Introduction:

The requirements given from our teachers were:

Design a 2 axle Solar tracker to measure and follow the position of the sun. The mechanical concept should be able to turn 180° and tilt 70°. The project should be controlled by an Arduino and 4 light depending resistors for measuring the position of the sun. For the movement two servomotors, a solar module and 4 LDR’s were provided to us.

Goal:

Our goal was to come up with an idea, construct the mechanical components in our CAD-Program Creo, build the parts and then assemble them. Furthermore, come up with an electrical Plan and program the Arduino to control the servos and the other components.

Present our own idea: