

Mechanical energy examples

I'm not robot!

Force, Work and Energy



Mechanical Energy

The term **mechanical energy** means the sum of an object's potential and kinetic energy.

$$E_m = E_K + E_P$$

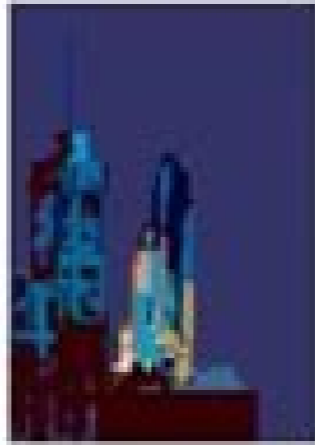


When work is done on an object, the object gains energy as a result.



An object is gaining kinetic energy if it increases its speed.

An object is gaining gravitational potential energy if it is getting higher above the reference point (the ground).



ROBERT SMITH

Associate Controls Technician

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SUMMARY

Seeking position as Project Technician where can use skills on HVAC Controls and Building Management Systems.

CORE COMPETENCIES

Laser/Punch Turret Setup Operator, Adept robot training.

PROFESSIONAL EXPERIENCE

Associate Controls Technician

Automatic Controls Engineering - 2011 - 2019

Key Deliverables:

- Developed control database based on mechanical specification.
- Startup and test different control devices based on control design specifications.
- Developed campus controls logic for building and campus applications.
- Developed Building Management Systems User Interface based on Niagara Framework.
- Trained in software engineering with Niagara software (AX, F2).
- Software engineering includes general project management, Field controller programming (Schneider Electric I/A Series Controllers using Workplace Tech), engineering network controllers (ENC/UNC).
- Training provided by Automatic Controls Engineering (Schneider Electric Partner).

Controls Technician

ABC Corporation - 2009 - 2011

Key Deliverables:

- Responsible for the electrical trouble shooting and maintenance of KASPER and RAT foamers and water jet machines.
- Performed preventive electrical maintenance on Alliance Automation Spyder presses and water jet tables.
- Trouble shot production equipment issues using Allen Bradley RS Logix 500 and Siemens S5/S7 for Windows software packages.
- Rebuilt building lighting fixtures per PM schedules.
- Performed program back ups and minor program changes to ABB and Motoman robot systems.
- Responsible for backing up all plant equipment Allen Bradley RS Logix 500 programs.
- Assisted Senior Mechanics with machine modifications and tear downs.

EDUCATION

2259 Oak Street, Old Forge, New York, 13420

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When a force acts on the balls to drop them, the gravitational potential energy of the bowling ball is combined with its kinetic energy of movement. It will drop more force than the tennis ball, which will bounce due to its high potential elastic energy. An object uses kinetic mechanical energy when it is currently moving. A force acted on the object, causing the job. The kinetic mechanical energy can occur when the kinetic energy of another object moves to it (as when a thrower throws a ball) or when another type of kinetic energy converts into mechanical energy. In addition to mechanical energy, the four types of kinetic energy include: no form of energy can be created or destroyed. Energy can only be transferred or converted into different types of energy. Any transferred energy that makes an object do a job is an example of energy conversion. Mechanical energy conversions allow an object to move. Here are some examples of ways in which different types of energy become mechanical energy. Gasoline converts chemical energy into mechanical energy in cars. Steam engines convert thermal energy into mechanical energy for movement. An energy drill converts electricity into mechanical energy when connected and used. Music converts the energy of sound into mechanical energy in the tympane. On the contrary, mechanical energy can be converted into different types of energy. Take a look at these examples of energy transformation from the movement. Windmills convert mechanical energy into electrical energy into houses. The blowconverts mechanical energy into sound energy. click together the hands converts mechanical energy into thermal energy. turning on a light switch converts mechanical energy into electric and radiant energy. radiant.hcihw .)ygreNE lacinahcem fo mr eht ni(Ecfrof eht seilppa ,dehsomemed eb ot gnidliub eht llab gnikcerw eht nehW .oot ygreNE citenene snitos snitos snitos ,slafa snitos ,s tuoafa sniatnoc ti ,thgieh a ta dleh si llab eht nehW .sgnidliub fo noitilomed eht rof desu si taht erutcurts dnuor egral a si llab gnikcerw A llab gnikcerw W .1 .efil yadyreve morf selpmaxe wef a gnikat yb ylnialp erom ygreNE lacinahcem fo tpecnoc eht dnatsrednu ot yrt su tel .ecrof lanaitavarg eht rof tpecce .)ecnatssier ria ,noitcirf elpmaxe roff ecfrof evitassid yna fo ecfroifni eht rednu ton fl tntrene ygreNE ygreNE ybnc ygreNE laimetoP + ygreNE citenik = ygreNE lacinahcem ;si ygreNE lacinahcem ROF ALLUMROF EHT .YGRENE CENEMIK DNA YGRENETO LAITNEITNEOT FO MES EHT THAT .ECHNEIGS LACISYHP THEV/ISYHP ti sa ;tntnevom fo ygreNE eht sa demret eb nac ygreNE lacinahceM .ygreNE citenigam ro ygreNE raeticun ,ygreNE circiole ,ygreNE lacimehc ,ygreNE lacinahcem eb dlucoc ygreNE shiT ,agnahc snoitidnoc eseht sa ygreNE gniucodory fo yllibapac eht sah tcejbo shiT .noitidnoc sti ro .Erahc Giccole .Sserts laurretni ,srehto ot Evtialer Noitissop sti morf emoc nac .noitom morf Gnimoc Fo Daetsni .tcejbo na ygreNE derot ygreNE otnepmaxe ssmed sismrote otteppmaxe in tnerreffid 01 eht rof gnidaer peek ?ygreNE fo sepyt tnerreffid eht eht eht eht eht os .krow eht gniod tcejbo eht if dneped Desu ygreNE Fo sepyt eht dna srene ygreNE ygreNE eht hctows thils that no gninururud ot tahw selpmaxe ydyreve htrene Fo Sepyt Tnerereffid Retirw ffats FDP Daolnwod & Weiv,ygreNE Lacimehc Otgrene Lacinahkem The work to be done, as in this case, the demolition of buildings. 2. Hammer every time we use a hammer A. let's say, hit a nail and bring it to the wall, we are simply applying a certain strength on the nail with the help of the hammer that is causing a certain work to do. At rest, a hammer does not contain any kinetic energy, but only a quantity of potential energy. When we swing a hammer up to a certain distance from the nail before hitting it, kinetic energy comes into play, and the combination of kinetic energy and potential energy in the hammer, called mechanical energy, causes the guidance of the nail in the wall. Or, we can say that the force applied by the hammer to work on the nail is mechanical energy, which is the sum of potential and kinetic energy. 3. Dart gun a dart gun is another example of mechanical energy observed in daily life. A dart gun works on the principle of elastic potential energy. The spring used in the guns in Dardo consists of stored elastic energy. When a dart pistol is charged, it causes the spring to compress. At that moment, the dart pistol consists of elastic potential energy. Because of this energy, the spring is able to apply the force on the dart and works, that is, to move the dart. 4. Wind mill The windmills are the structures that convert wind energy into electricity and this energy is then provided to our homes. But where does this energy come from in the wind and moves the great blades of a windmill? The windmills work on the principle of mechanical energy and work. Mobile air (wind) has a certain quantity of energy in the form of kinetic energy (due to the movement). This energy is the ability to work on the fan blades. The moving air applies the strength on the blades and allows you to The work, therefore, with consequent rotation. Therefore, mechanical energy gave the wind the ability to work on the fan blades. 5. Bowling Ball this interesting interesting alled elarutan etillettas ocinau! 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