

Air Pollution Monitoring System using IoT

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Abstract: *Air pollution affects our day to day activities and quality of life. It poses a threat to the ecosystem and the quality of life on the planet. The dire need to monitor air quality is very glaring, owing to increased industrial activities over five past years. People need to know the extent to which their activities affect air quality. This project proposes an air pollution monitoring system. The system was developed using the Arduino microcontroller. The air pollution monitoring system was designed to monitor and analyze air quality. It can cause adverse health effects such as cancer, cardiovascular diseases and high mortality rates. High population density is a huge contributory factor of air pollution in cities and urbanized areas. The third biggest city of the Czech Republic, Ostrava the subject of this thesis, is one of the most densely polluted areas of the country. The main air pollution of concern are suspended particles and poly aromatic hydrocarbons. Ostrava's high proportion of heavy industry is major Bourne of air pollution compared to the rest of the Cozech Republic. Other sources of air pollution are transport, local heating and possibly a pollution transfer from a neighboring industrial region in Poland.*

Keywords: A Ardiino Uno, Temperature and Humidity sensor, Bread Board, Resistor, Jumper wire

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