

AMITY EDUCATIONAL RESOURCE CENTRE

**YRoNS 2019,
Amsterdam, Netherland**

PROJECT DETAILS FORM

School Name: Arendal Videregaende Skole, Norway

S.No	Team Members	Team Leader	Project Title	Abstract (Max 200 words)	Teacher Advisor
1 2 3	Magnus Fossum, SivertMoklegardPihl Martin Kollstrand		Colorful Waste Management	<p>We were inspired by the waste problem the world is facing and we wanted to find a way to make recycling easier and more widespread. Some of the challenges with recycling is to collect, transport and sort the many different types of waste we produce today.</p> <p>Our appliance is a prototype using an Arduino board, a color sensor and Mindstorm Lego, for what we imagine could be a factory where garbage trucks will deliver bags from homes. In the factory, bags of wastecanbe sorted by color, and recycled.</p> <p>The system requires households to sort their waste in color-coded bags for each type of waste. In this way, multiple types of waste can be assembled in one container, before it is picked up. This will both reduce costs for companies and decrease the amount of containers outside of homes in narrow streets and in cities. It might make recycling possible in areas where there is no recycling today.</p>	

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1 2	IsakKnutsen Marius Holtet		Educational Recycling Machine	<p>Waste is an increasingly serious problem in modern society if we want to leave the earth as we found it for future generations. We consume large quantities of products, and thus throw away large quantities of waste. This waste ends up in large landfills where the waste decomposes and releases potent greenhouse gasses such as methane and carbon dioxide, hazardous chemicals and plastics. One of the main ways to tackle this problem is by recycling, something that allows us to utilize the former products and make them into something new instead. Viewing waste as a potential resource is essential to manage the increasing problem of growing landfills in combination with shortage of resources.</p> <p>In order to solve this issue we have chosen to focus on education. To increase the rate of recycling it is important to educate children about these issues. They need to know how to recycle and why. With increased level of awareness, they can make good decisions for the future.</p> <p>To educate young children we have developed a game, using color-coding to increase their knowledge and awareness of recycling. The game will teach them how to identify different types of waste, how to recycle it and why we need to recycle. It is educational and fun at the same time!</p>	

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1	Nicole Cing Pei Mang		The Color Pen	The problem we have chosen to explore is directed at people suffering from one or multiple types of color vision deficiencies and the challenges they face. Not being able to distinguish color, can be difficult in school, when enjoying art or cooking your dinner.	
2	Nora-Victoria Soby-Arnesen			We have built a prototype pen which is able to detect a number of different colors using an Adurino Uno Sensor. When the pen is directed at an object the name of the colour of the object will appear on a screen. To develop our idea we are also looking at connecting the pen to headphones to allow users to also hear the colour of the object. This would allow completely visually impaired users to identify objects with different color.	

