

### Teilnehmende Projekte

In den 6 Kategorien Education, Environment, Buildings, Factory, Inspiring Engineers und Recreation, haben sich folgende Projekte erfolgreich qualifiziert:

#### Education

| Projektname   | Institution  |
|---|--|
| Collective Robotic Collaboration Project  | Instituto Profesional Duoc Uc                                  |
| An educational platform based on a racing cars´ game for training and research in innovative technologies | University of Oviedo   |
| Driverless Electric Car Controller  | University Of Electronic Science And Technology of China       |
| Educational tool for the identification and sorting of electronic components                              | Fergusson College, Pune, India                                 |
| Ein- und Ausparken eines Fahrzeugs mit Hilfe einer Fernsteuerung  | Technische Universität München                                 |
| Entspannt mit PHOENIX-SPS<br>Lernen durch Vergleich   | David Roentgen Schule Neuwied<br>Berufsbildende Schulen Meppen |
| Mehrgebiets Ofen  | Nationale Universität von Kriwoj Rog                           |
| New Educational Administration Automatic System   | Sichuang University  |
| Panels to simulate industrial process of educational objectives   | Istituto Tecnico Settore Tecnologico "E. Scalfaro" - Catanzaro |
| PV Performance Monitoring System  | ITE College East   |
| Smart Eraser  | Qingdao University of Science and Technology                   |
| Torminator  | Berufsbildende Schule 1 Mainz                                  |

## Environment

| Projektname  | Institution   |
|--|---|
| Automated Solar-Powered Stove  | Cape Peninsula University of Technology                                     |
| Automatic Train  | Warsaw University of Technology   |
| Cloud computing and IOT-Based Greenhouse Micro-Climate Management System                                 | School of Electronics and Information Engineering, Tongji University        |
| Energy Collecting System of Bosschair  | Sino-German University of Applied Sciences, Tongjin University              |
| ESPEC-Station  | Berufsbildende Schule 1 Mainz   |
| The Free Blade   | Penn State Harrisburg   |
| Future of E-Mobility   | Forschungszentrum Jülich  |
| Intelligent Bike System  | Sino-German University of Applied Sciences, Tongjin University              |
| Kontrolle und Dokumentation der Wasserqualität an der Nyanza Technical School Rwanda                     | David Roentgen Schule Neuwied und Nyanza Technical School Ruanda            |
| Mini Automated Farming   | Heriot Watt University, Dubai   |
| Offshore windmill with flywheel  | WASEDA University   |
| Sensorless dual axis solar panel tracking controller for irrigation application by using 5KW solar panel | Government College of Technology  |
| Small size automatic garbage compression process   | Qingdao University of Science and Technology                                |
| Smart Eco Entertainment  | Kryvyi Rih National University  |
| Smart&Green Fitness System   | Wuhan University of Technology  |
| Smart-IES  | Realschule Jülich   |
| Solar Powered Automated E-Bike Battery Sharing and Charging Station                                      | West Chester University and Harrisburg University of Science and Technology |
| Stirling Engine  | Salesian Institute of Don Bosco   |
| System of sorting and disposing of waste   | Warsaw University of Technology   |
| The Trash Hunt   | The Faculty of Automatic Control and Computers                              |

## Buildings

| Projektname  | Institution   |
|--|---|
| The application of landscape fountain in central air conditioning cooling water            | Sanjing University  |
| Automatic Home Demonstrator  | Berufsbildende Schulen 2 Wolfsburg  |
| Automatic Wardrobe   | Warsaw University of Technology   |
| Automatic Watering Can   | AGH University of Science and Technology                                    |
| Development of a gesture command based smart home environment                              | Don Bosco College of Engineering and Technology, Assam Don Bosco University |
| EcHo - The Economic Home   | Berufsbildende Schule 1 Mainz   |
| Energy saving water supply system for building   | Wenzhou Technician College  |
| Gesture Driven Home Environment  | Hochschule Rhein-Waal   |
| Greenhouse control system for tomatoes for Christmas time with the automated "green thumb" | Realschule Steinheim  |
| Hotel Fire Escape System   | Shanghai University of Electric Power                                       |
| The intelligent building with possibility of control via internet                          | Secondary Electrotechnical School (SPŠE)                                    |
| Intelligent 3-dimensional Garage   | Sino-German University of Applied Sciences<br>Tongjin University            |
| Intelligent Traffic Control System for Crossroads  | Zhejiang University   |
| LED intelligent light control system for emergency   | Qingdao University of Science and Technology                                |
| Locate & rescue system based on UAV/UGV for high-rise building emergencies                 | School of Electronics and Information Engineering, Tongji University        |
| Magic-Cube Building  | Sino-German University of Applied Sciences<br>Tongjin University            |
| Noise proof blinds   | Xinjiang Vocational University  |
| A Smart Intercom   | Politecnico di Torino   |
| The smart parking lot  | Huazhong University of Science & Technology                                 |
| TV Tower   | Forschungszentrum Jülich  |
| Wireless monitoring for outside CCTV   | Kharkiv National University of Radioelectronics                             |

## Factory

| Projektname   | Institution                             |
|---|---|
| Automated Production Application                    | Purdue University                       |
| easyCON - The innovative network-configuration tool | Ravensberger Erfinderverwerkstatt       |
| Electric Cylinder Driven by a Stepping Motor        | Technikerschule Allgäu                  |
| Flexible Picking Unit                               | Avans Hogeschool                        |
| Grillomat   | Berufsbildende Schule 1 Mainz           |
| Intelligent Mechanical Arm                          | Sanjing University                      |
| Keksomat  | Berufsbildende Schule 1 Mainz           |
| Multi-sized Automatic Storage System                | ITTS "S.Fedi - E. Fermi"                |
| Underground Vertical Storage                        | ITIS F. Corni                           |
| Wireless technology based storage trolley control   | The Vocational School of DongFeng Motor |

## Inspiring Engineers

| Projektname                           | Institution   |
|---------------------------------------|---|
| Automatische Eierzubereitungsmaschine | Schule am Warndtwald Überherrn                                      |
| Automatisierte Pralinenbefüllanlage   | Ravensberger Erfinderverwerkstatt                                   |
| Biometric Doorlocker                  | Ravensberger Erfinderverwerkstatt                                   |
| Coffee-Cup-(Car)Wash                  | Willy-Brandt-Schule Mülheim a. d Ruhr                               |
| Smart Mirrors                         | Technical school of electronics in Poznań named Hipolit's Cegielski |
| Sundae Fundae                         | Walker Career Center  |
| Tafelwischroboter                     | Humboldt -Gymnasium Bad Pyrmont                                     |
| Tresor                                | Liebfrauegymnasium  |

## Recreation

| Projektname   | Institution  |
|---|--|
| Automatic Aided City Bike   | Military Academy of Technology                                   |
| Automatic Irrigation System   | Sino-German University of Applied Sciences<br>Tongjin University |
| Automatic Puppet Theater  | University of Warmia and Mazury in Olsztyn                       |
| Automatic Tracking System by AR.Drone & Kinect                          | Waseda University  |
| Bar4You   | Berufsbildende Schule 1 Mainz                                    |
| DeskCleaner   | Wroclaw University of Technology                                 |
| Diet Machine for Diabetics  | University of Warmia and Mazury in Olsztyn                       |
| Fit im Team mit Phoenix und Carrera                                     | David Roentgen Schule Neuwied                                    |
| Hunting for Pancakes  | Belarusian National Technical University                         |
| Intelligent Chair   | University Of Electronic Science And<br>Technology of China      |
| Laser Engraver  | Wroclaw University of Technology                                 |
| Medicines Auto-Distribution System                                      | Tianjin Light Industry Vocational College                        |
| Meenzer Puppetbox   | BBS 1 Mainz  |
| MOODY - virtual friend  | Poznan University of Technolgy                                   |
| Phoenix Contactless Casino  | UGENT campus Kortrijk Uni Gent                                   |
| Pneumatic Checkers  | Warsaw University of Technology                                  |
| Sandwiches  | zuyd university of applied science                               |
| Sleeper- intelligent cradle   | Military University of Technology                                |
| Super Beverage Mixing Machine   | Qingdao University of Science and<br>Technology                  |
| Telecontrol household automatic cooking machine                         | Sino-German University of Applied Sciences<br>Tongjin University |
| The MCU based motor-assisted-bicycle and its energy management strategy | Huazhong University of Science &<br>Technology                   |
| Two-dimension input-based intelligent wireless multi-color 3D-printer   | Sino-German University of Applied Sciences<br>Tongjin University |

WID - Wearable Input Device

Robert Morris University and Pennsylvania  
State University