

## **Research Interest May 2017**

### **Prof. Dr. M. Timur AYDEMIR**

My research area is power electronic applications. In general I deal with power electronic applications in renewable energy, motor drives and battery management systems. My recent projects are on battery management systems, wireless power transfer systems and welding inverters.

In battery management systems we are developing controllers and interface circuits for portable devices. This project can be extended to electrical vehicles, including battery charging.

In wireless power transfer project we are using inductive power transfer principles to set up a battery charging systems for electrical vehicles.

In welding inverter project we are developing power and control circuits for a multifunction welding machine.