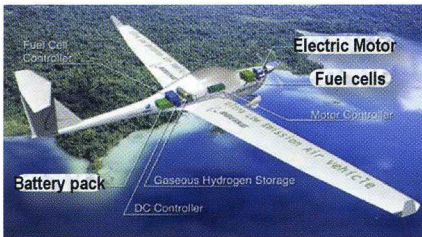


CENTER OF INDUSTRIAL ELECTRONICS

RESEARCH LINES

POWER ELECTRONICS

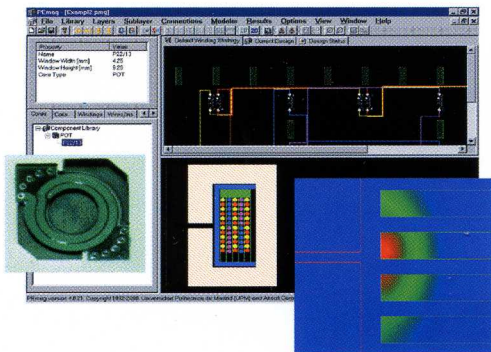
- Design of power supplies
- Modelling and simulation of systems and electronic devices
- Design and application of digital control



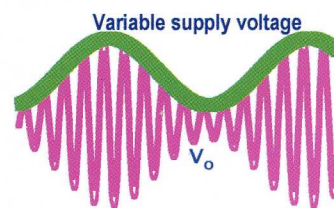
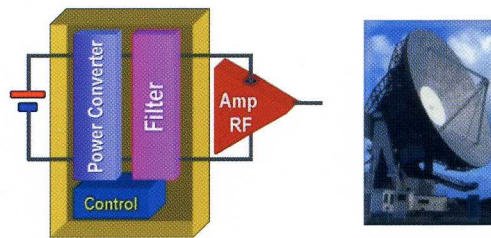
- Power converter for power distribution in the first manned fuel cell-propelled aircraft.



- Multi-phase converters (16/36 phases) with digital controller implementation based on a FPGA.



- Development of CAD tools to aid in the design of electronic circuits.
- Modelling and design of electronic systems and components (magnetic components, flat devices, electronic subsystems, ...)



- Design of the power converter for a radiofrequency (RF) transmitter based on a multi-phase solution with variable voltage.