



**Category:** VEHICLE- Powertrain efficiency.

**Sub Category:** Analyzers and control systems, R&D.

[www.redler.co.il](http://www.redler.co.il)

## Company profile

Founded in 1994, Redler Computers Ltd. is an innovative & reputable Electronic& Control, design and Engineering house, located in Israel.

Specializes in the development of digital servo drives and advanced motion control systems design and manufacture the most reliable systems that meet mil stand and design for Harsh environmental conditions.

Redler's vision is To become a leading company for Vehicle Power Management Solutions for Military, Aviation, Maritime, Unattend systems, mobile Micro grid and EV (Electric Vehicles). Based cutting edge cost effective technology, IP and gradual grow within sub-markets.

**Year of establishment:** 1994

**No. of employees:** 12

## Background of the company

Redler's heavy duty motor controllers integrated in the new Israeli ACV (armored combat vehicle) "Namer" and in the "Merkava" tank

Redler's developments & products are integrated within most of the leading Israelis UAV systems.

## Examples of projects

### 1. PGM - Précising Guided Munition -120 mm full design:

The project includes the mission computer, 4 axes servo unit, INS-GPS design, aerodynamics configuration and GNU algorithm.

### 2. Heavy-duty high performance servo system:

Driving up to 2.5 kw.

Sensor less BLDC motors.

Easy to install and maintain

Typical power at 27v is 1350 w,

Wide range of operation voltage 12v-75v.

Up to 60A at 75V to 12000RPM.

The unit performs a BEMF trapezoidal or Hall/Encoder sinusoidal drive.

## Technologies & products

1. MAMC (Multi Axis Motion Controller) power train Patented technology (No 16461/461) enable to improve EV power source (such as Lithium Ion or Fuel cell) efficiency up to 25% working duty duration & up to 15% source power charging LCC (life cycle costs) by the motor controller in a unique method.
2. Automatic fuses and switches, measure analyze, manage and communicate power consumers- Redelr's Fuse & switches IP enable control, optimization, improving LCC and communication with other vehicle systems.
3. Heavy-duty high performance servo systems.
4. Navigation systems: INS-GPS, 3-D Magnetometer box

## Objectives / Target companies

Looking for strategic partners and investors to develop a revolutionary motor controller- the most efficient in the market for EV.