

# Accelerate your Projects with our Consulting Team!

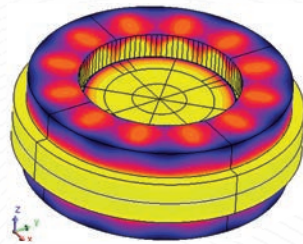
Farid Zidat - CEDRAT.

**C**EDRAT is not just a tool, but also complementary services like: Support, Training and Consulting. Our consulting service has been developed over a period 30 years within CEDRAT Group, serving large and small companies and laboratories. They may or may not be users of our software. We can help with anything to do with electromagnetic devices.

## Customer's needs

The problems faced by our customers can be in magnetic, electric or thermal applications; they can also need optimization or system studies. Customers' simulation requirements can emanate from:

- New technical constraints
- Occasional workload peaks
- Make a virtual prototype before the real one
- Optimization
- Pre-design
- Material characterization
- Control loop response
- Flux 2D/3D computations automatisations
- Macro creation
- IT resources rental



## Consulting process

The consulting team works essentially on customer specifications, used to put together a proposal. The work begins once the customer order has been received and all the necessary input data for the study secured.

Our working tools are the CEDRAT software suite: Flux 2D/3D, GOT-It and InCa3D, and PORTUNUS. So, we do not go as far as manufacturing the prototype. The deliverables are primarily reports and/or data files.

During studies, we can consult our partners if necessary: G2ELab; MAGSOFT, SPIN, Applied Magnetics, MACCON, INDIELEC, etc.

## Why choose CEDRAT consulting team?

### Crucial flexibility:

- Providing both editing and supporting software.
- Perfect knowledge of CEDRAT suite software.
- R&D team available for specific developments.

### Recognized core expertise:

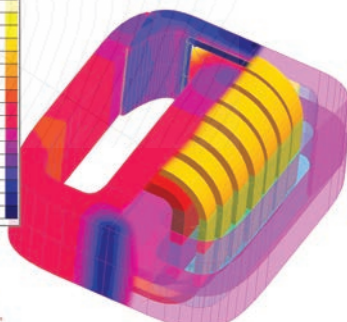
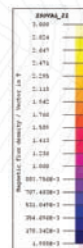
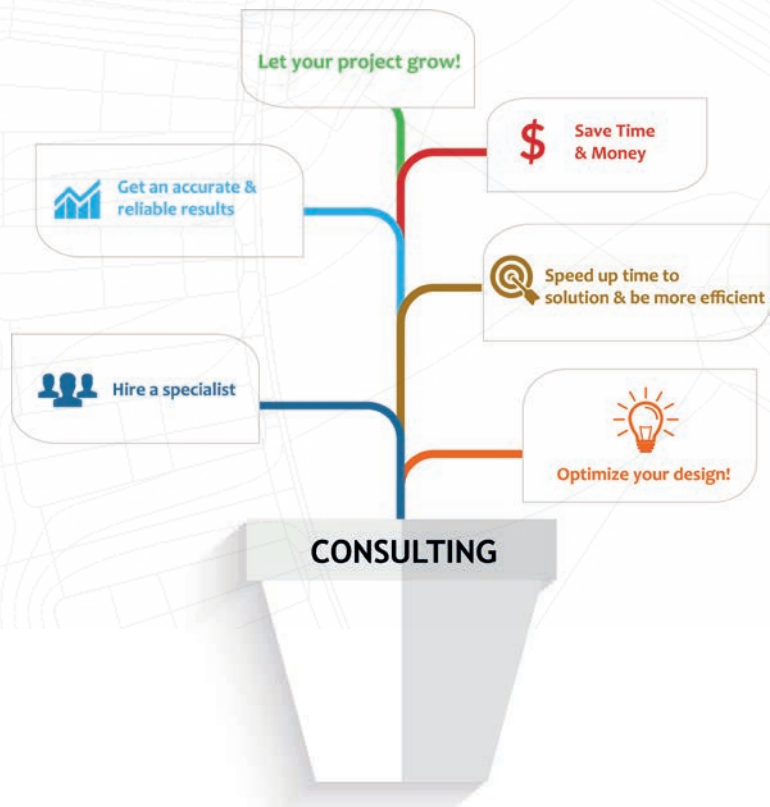
- Numerous studies completed.
- Several publications, in particular on Flux.

### A valuable network of experts:

- From CEDRAT's customers list, we can refer customers to those who can meet a specific need that our consulting team is able to deliver.
- Partners like G2ELab and distributors cited previously.

### Powerful tools like Flux 2D/3D

### Numerous IT resources, in particular clusters.



(see continued on page 29)

### Recent studies

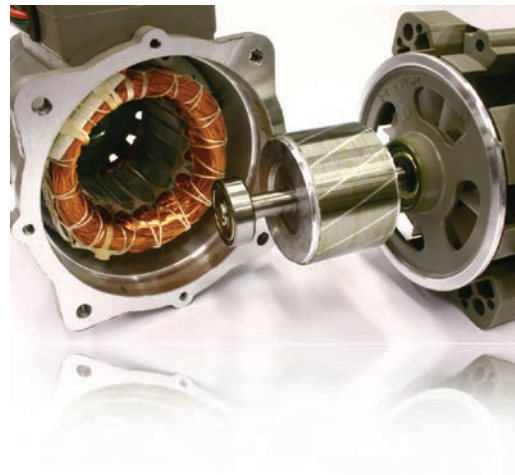
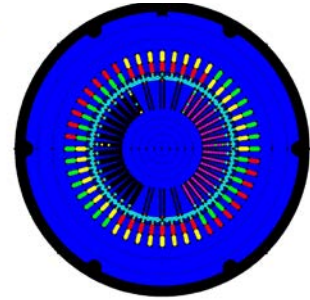
For reasons of confidentiality, we cannot mention customers' names. However, we can mention the applications on which we have worked:

- Submerged asynchronous machine (6 Mega Watt).
- Welding by induction heating.
- Induction heating for a home appliance.
- IT resources rental.
- Macro for winding turns distribution.
- Study of actuator for a space application.
- Predesign of permanent magnet machine for submarine applications.
- Magnetic field impact computation on metal walls and doors.
- Design of Helmholtz winding to reach a specific value of flux density.
- Impedance computation for EMC application.
- Table generation of magnetic forces, inductances, versus position and supply currents for electro valve to make system computation with LMS AMESim.
- Power balance for high-speed switched reluctance machine.
- Power balance for high-power transformer.
- Predesign of actuator based on the Thomson effect.

### To contact us

For more about our consulting services, feel free to contact us at:  
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>> [www.cedrat.com/home/service/consulting](http://www.cedrat.com/home/service/consulting)



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