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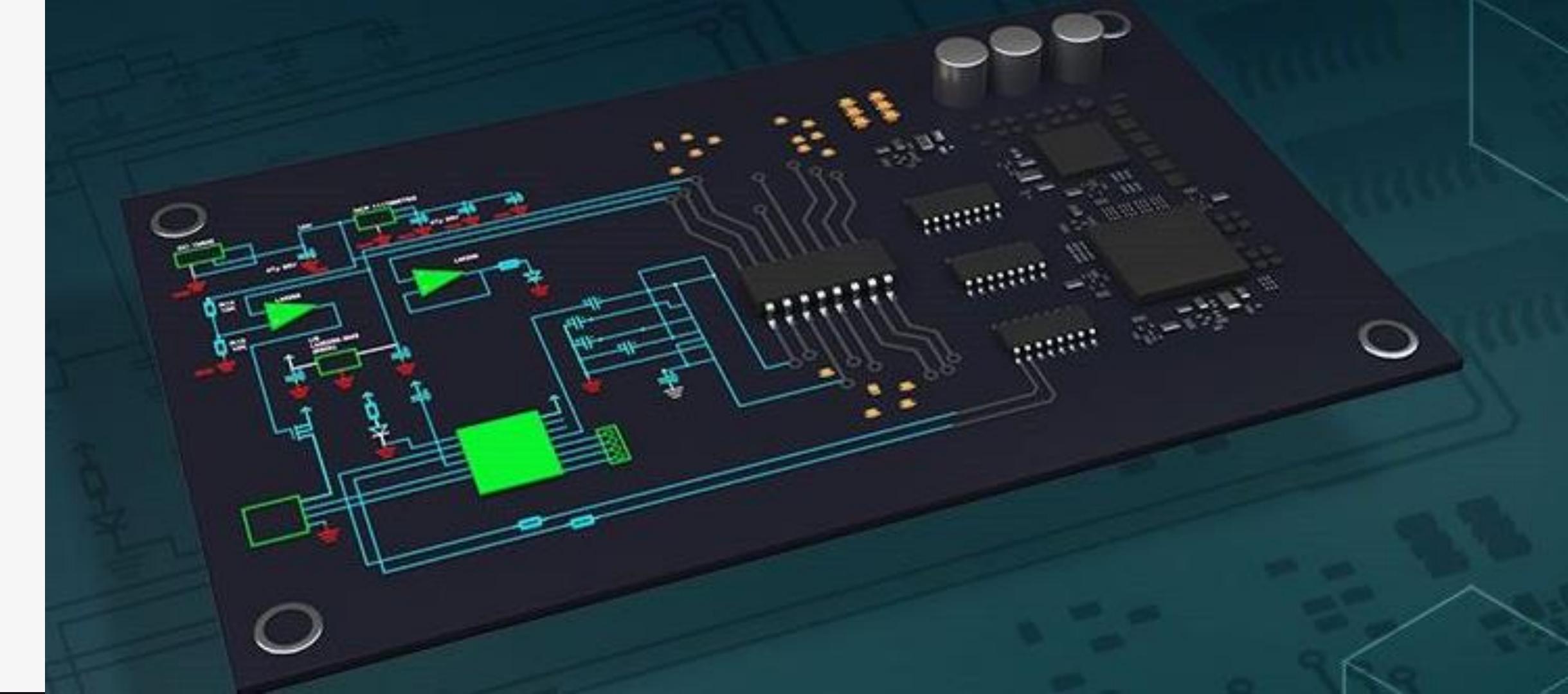
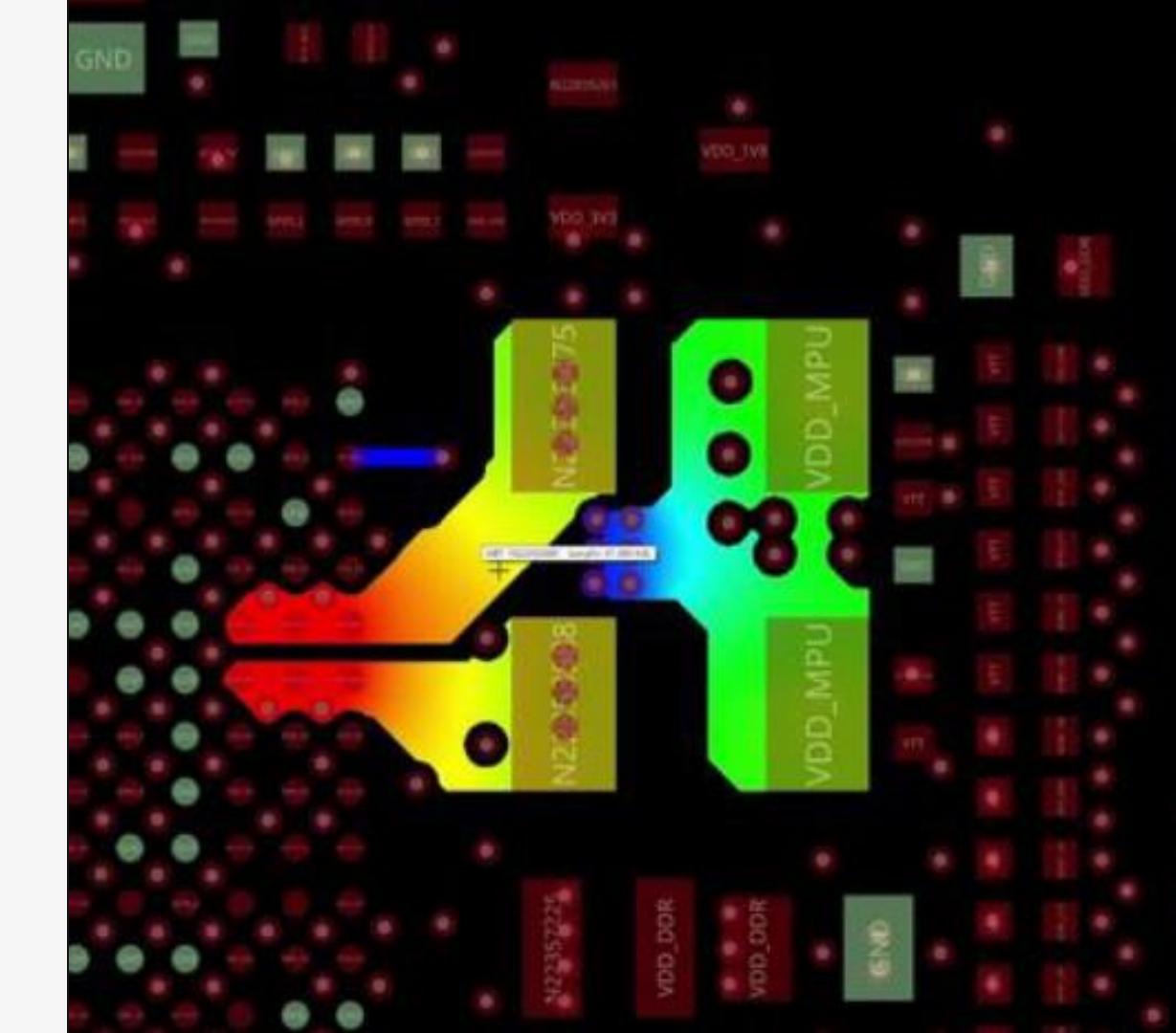
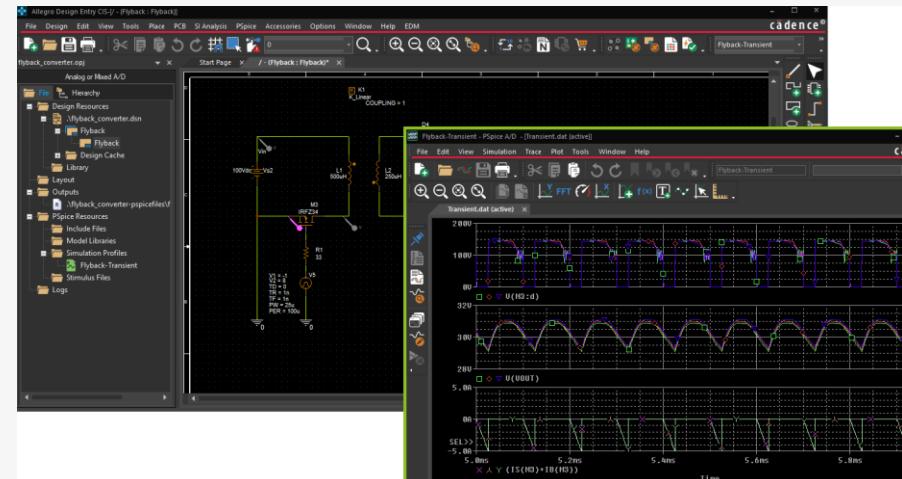
Services Portfolio

Andak Consulting

ONE STOP
ENGINEERING SERVICES
PROVIDER



FLOWCAD & CADENCE CHANNEL PARTNER



Local distributor for OrCAD-X,
Allegro, Sigrity X, PSpice,
OMNIA, OEM products

Technical Expertise and
Local Support

Engineering Services

HW Engineering
(Digital, Analog,
High Power)

Mechanical
design

PCB Design

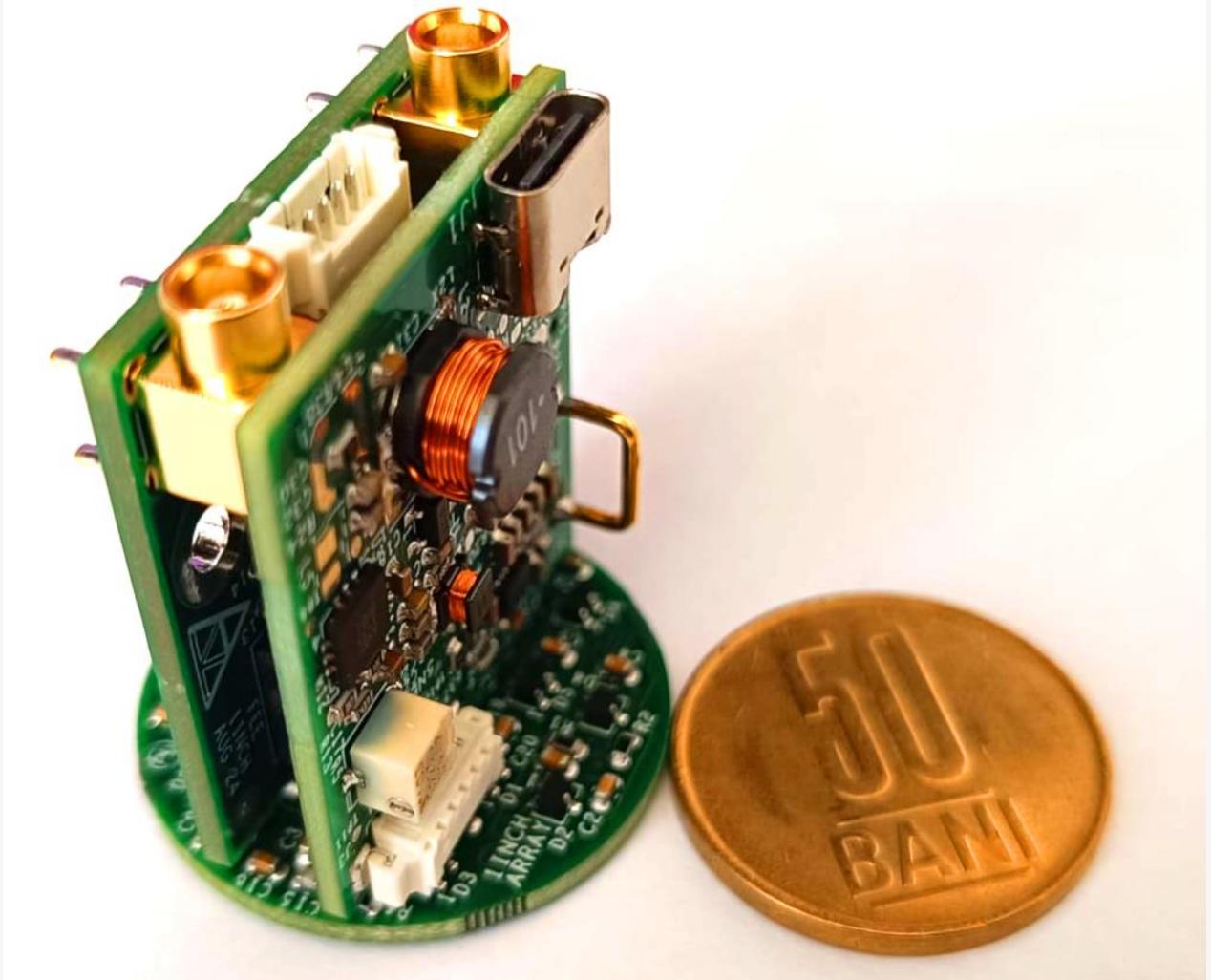
High energy
physics, nuclear
electronics

Library services

Manufacturing
management

SKILL
Customization
and tool
integration
(OrCAD and
Allegro)

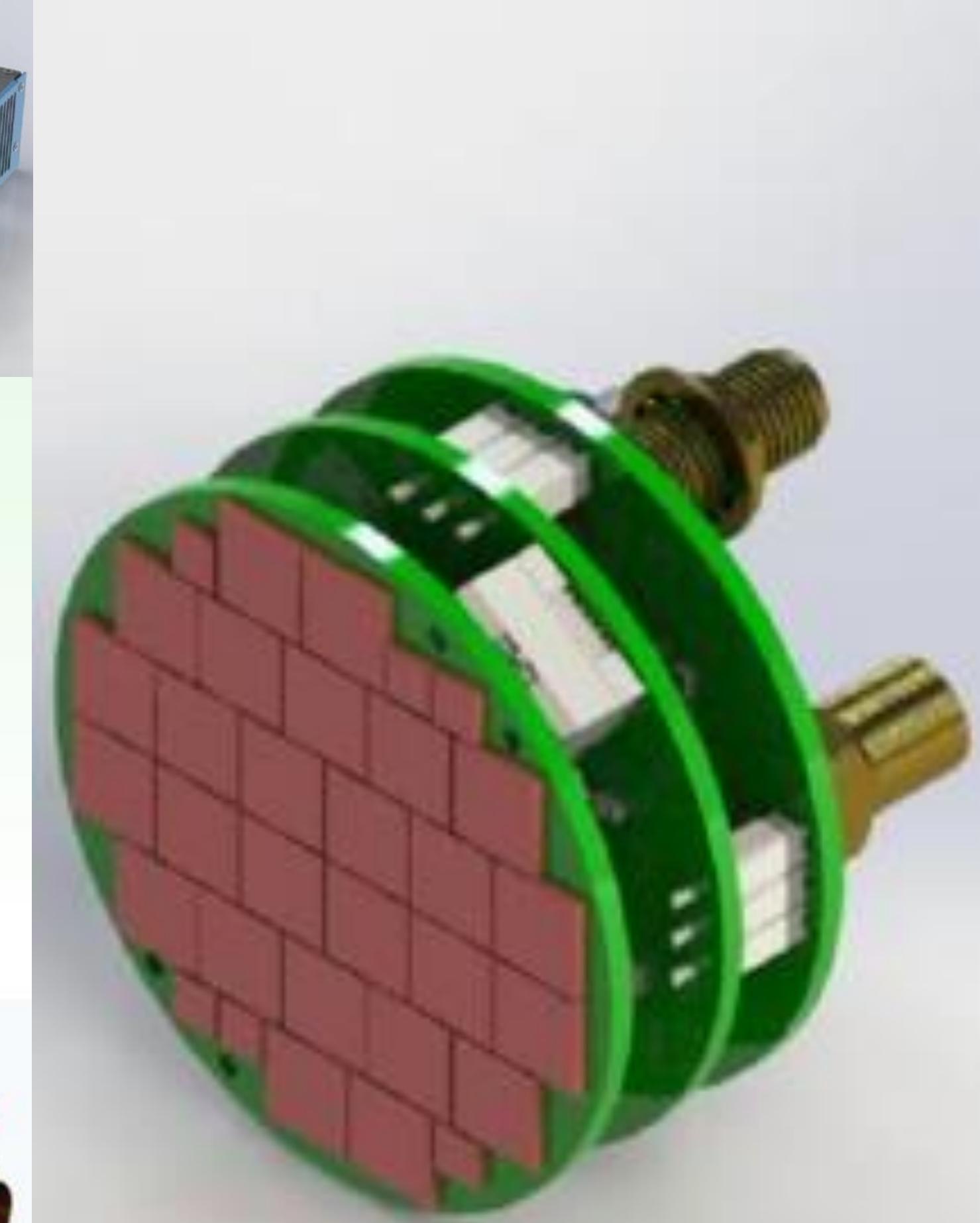
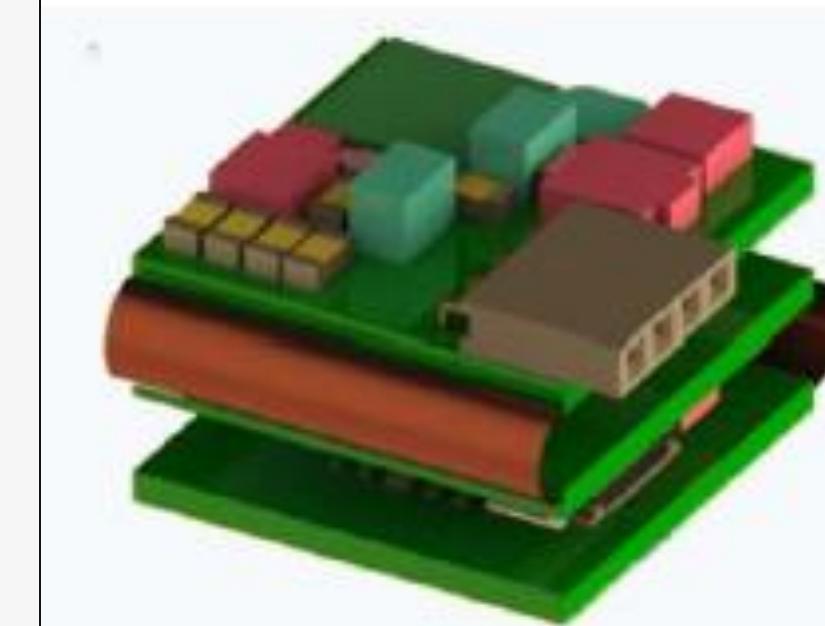
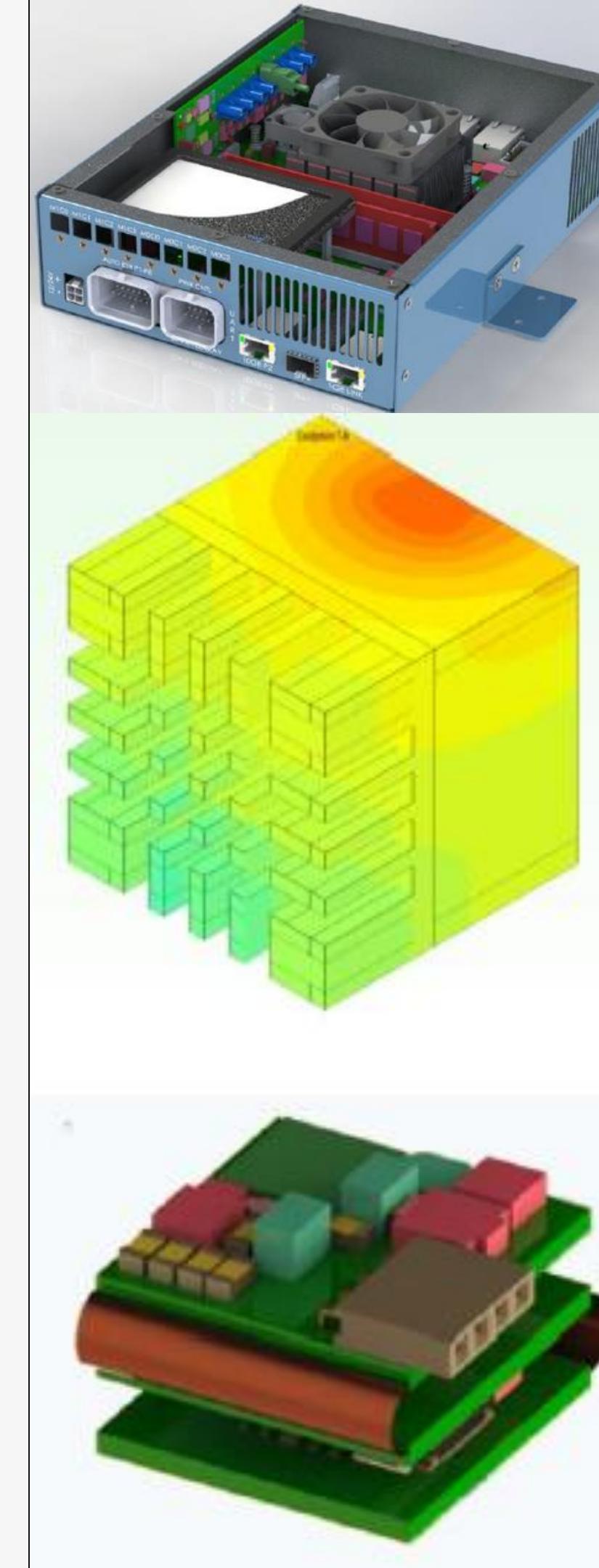
Reverse
engineering

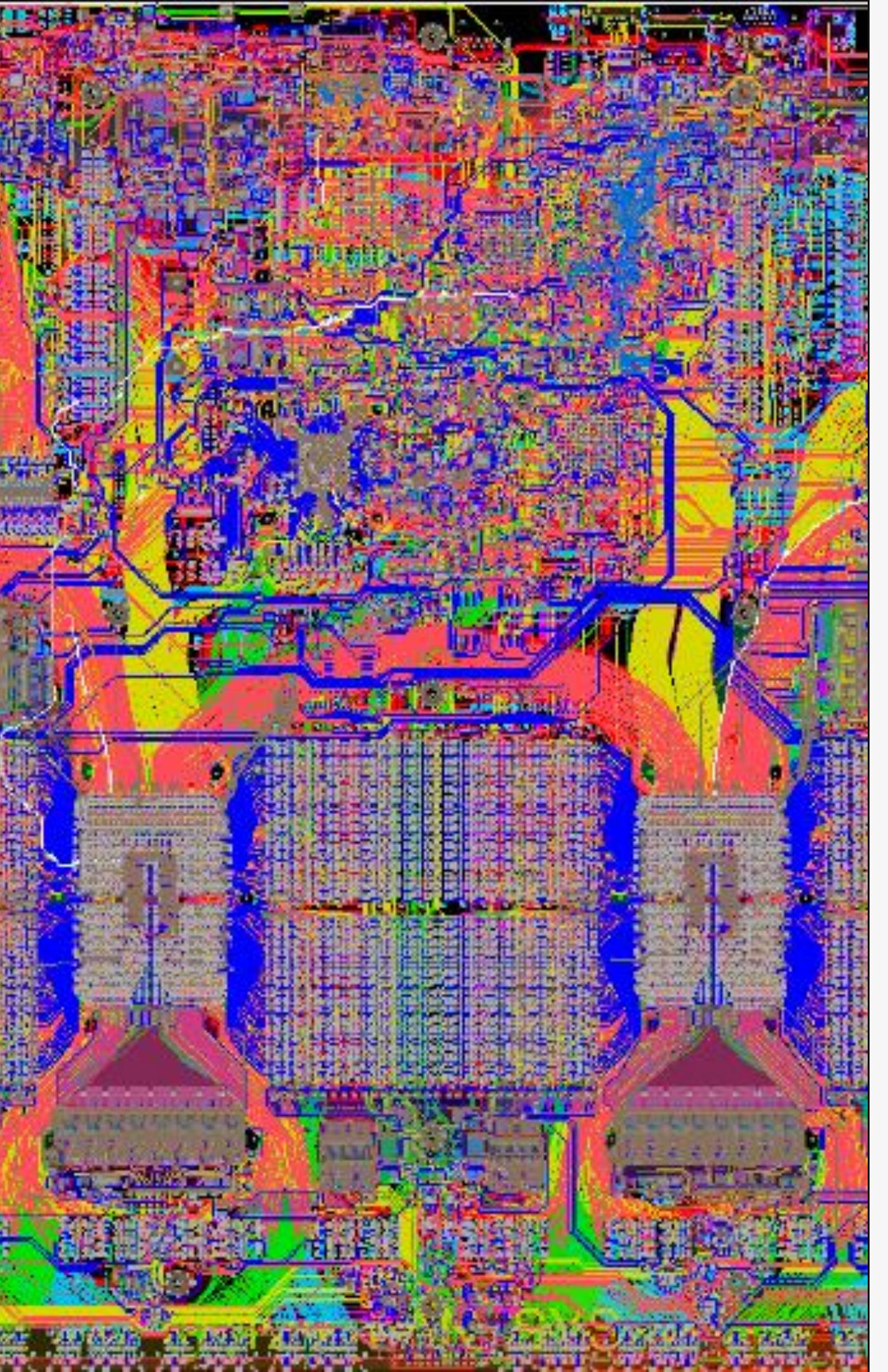


HW ENGINEERING

Key points

- System architecture
- Complete system design
- HW Engineering
- PCB Design
- Mechanical modelling
- Thermal management
- PCB and PCBA manufacturing management
- Very High-Density systems

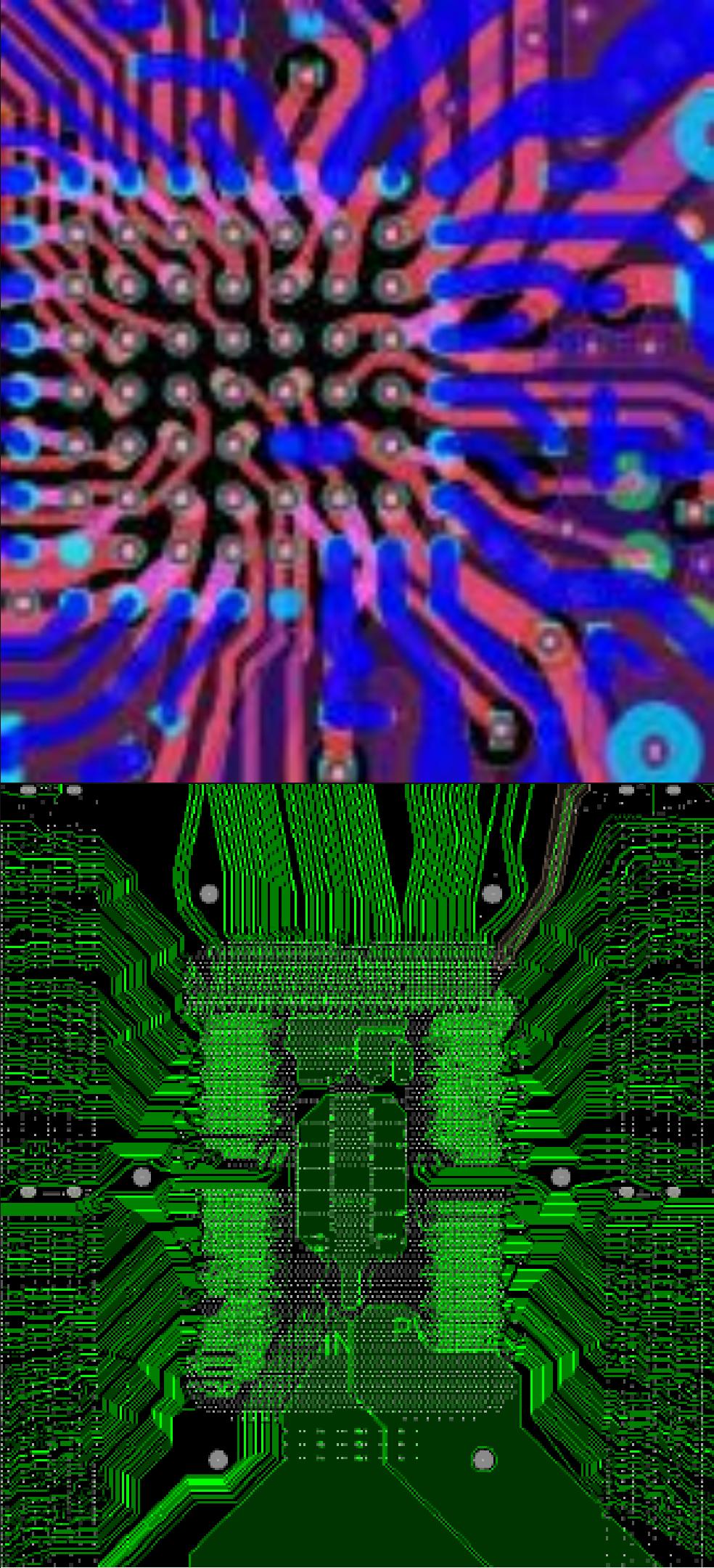




PCB Design

Key points:

- High complexity (e.g. 8400 components, 35000 connections)
- High speed, analog, RF, DDR5, HDI (0.35mm BGA)
- High density boards

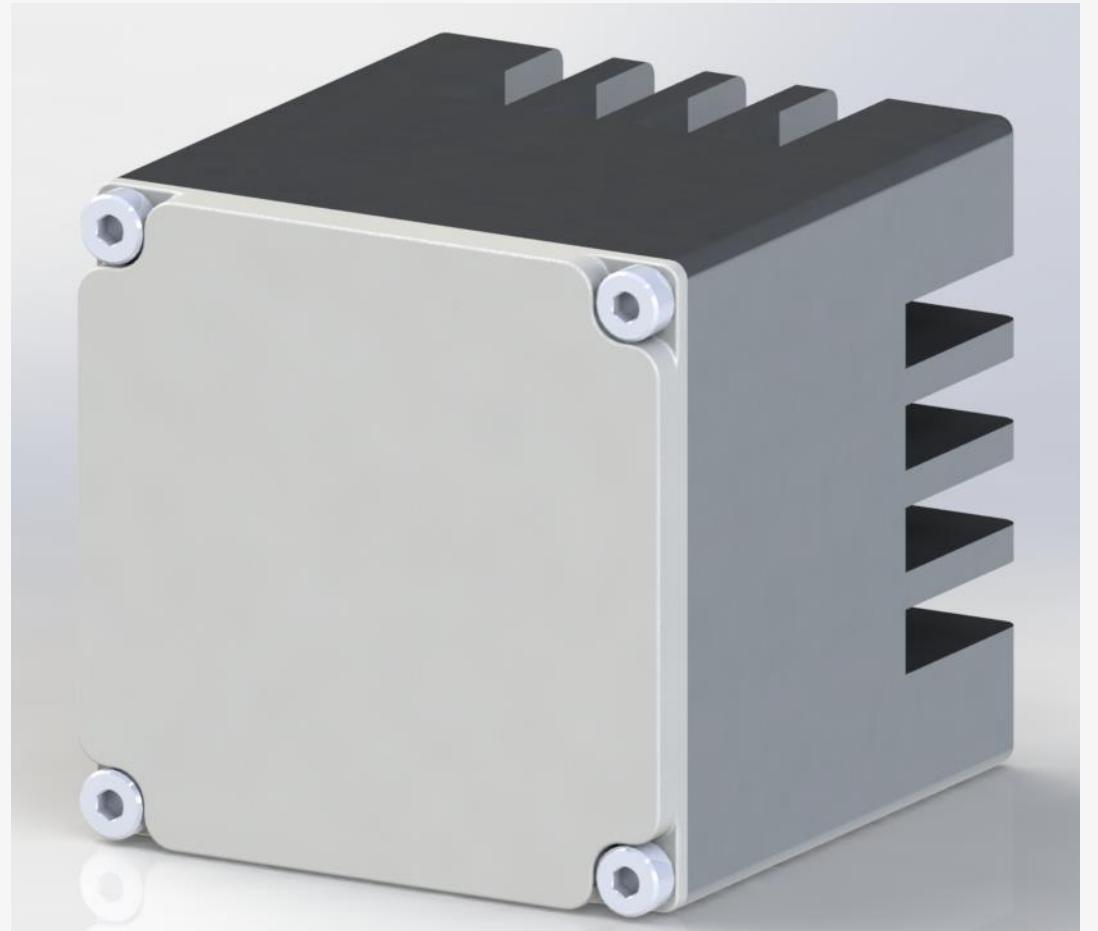
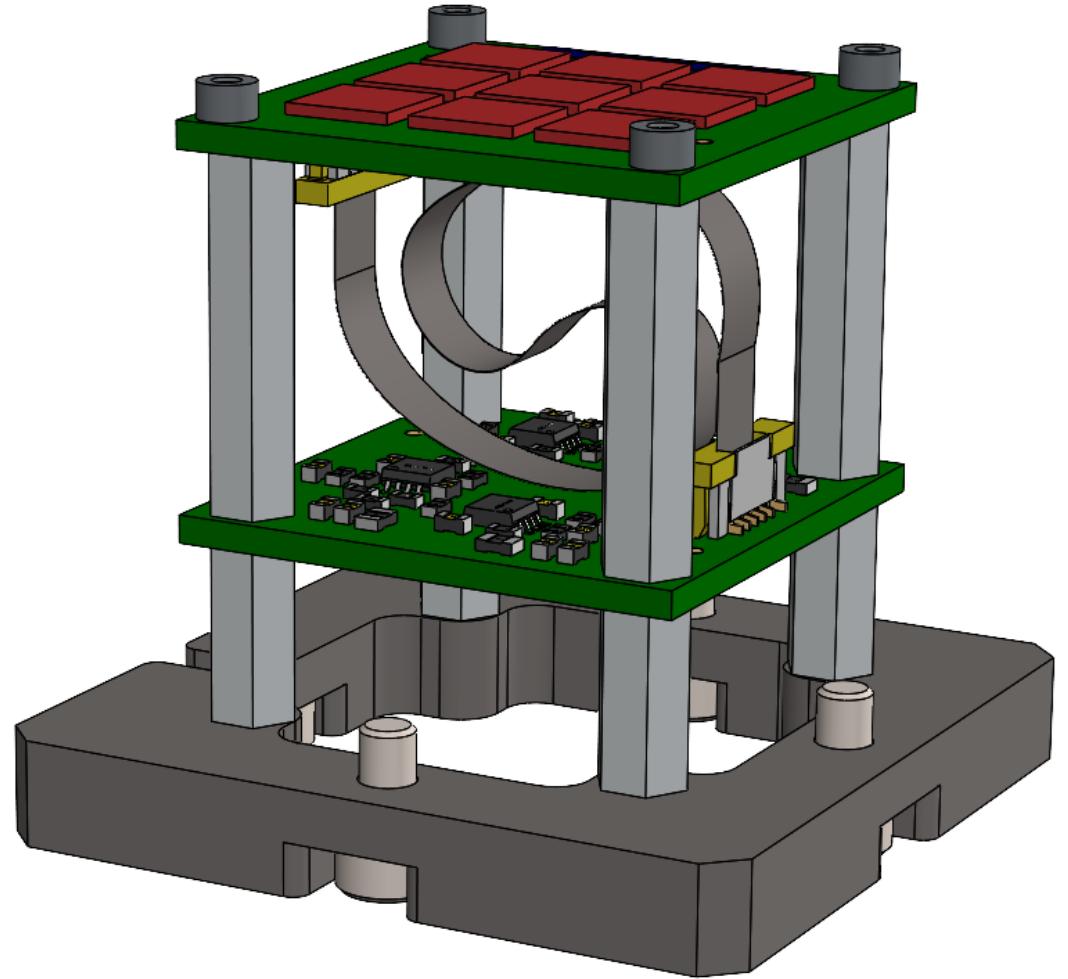


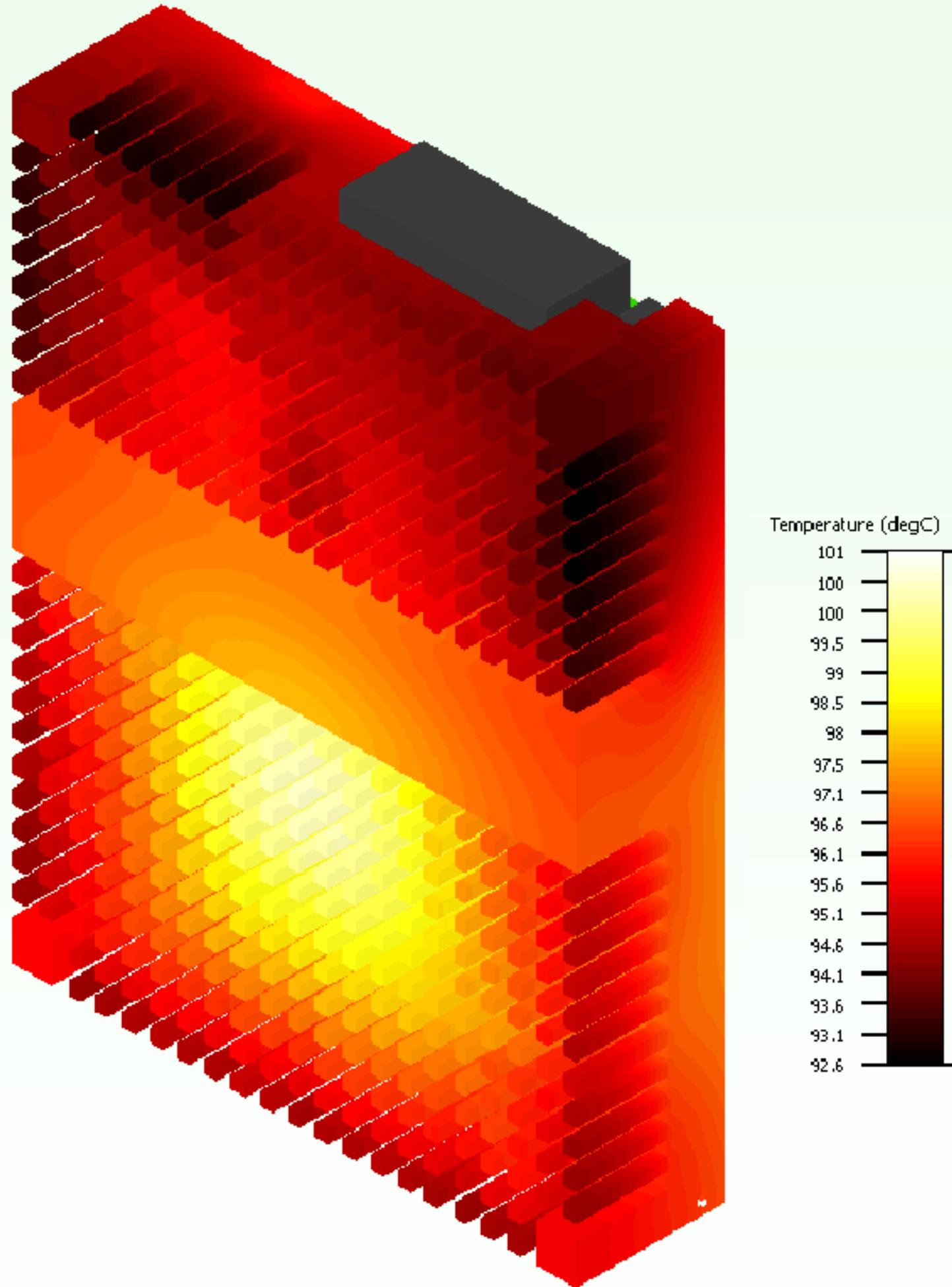


MECHANICAL DESIGN

Key points

- System design
- Enclosure design
- Fast prototyping
- Miniaturization
- 3D Modelling

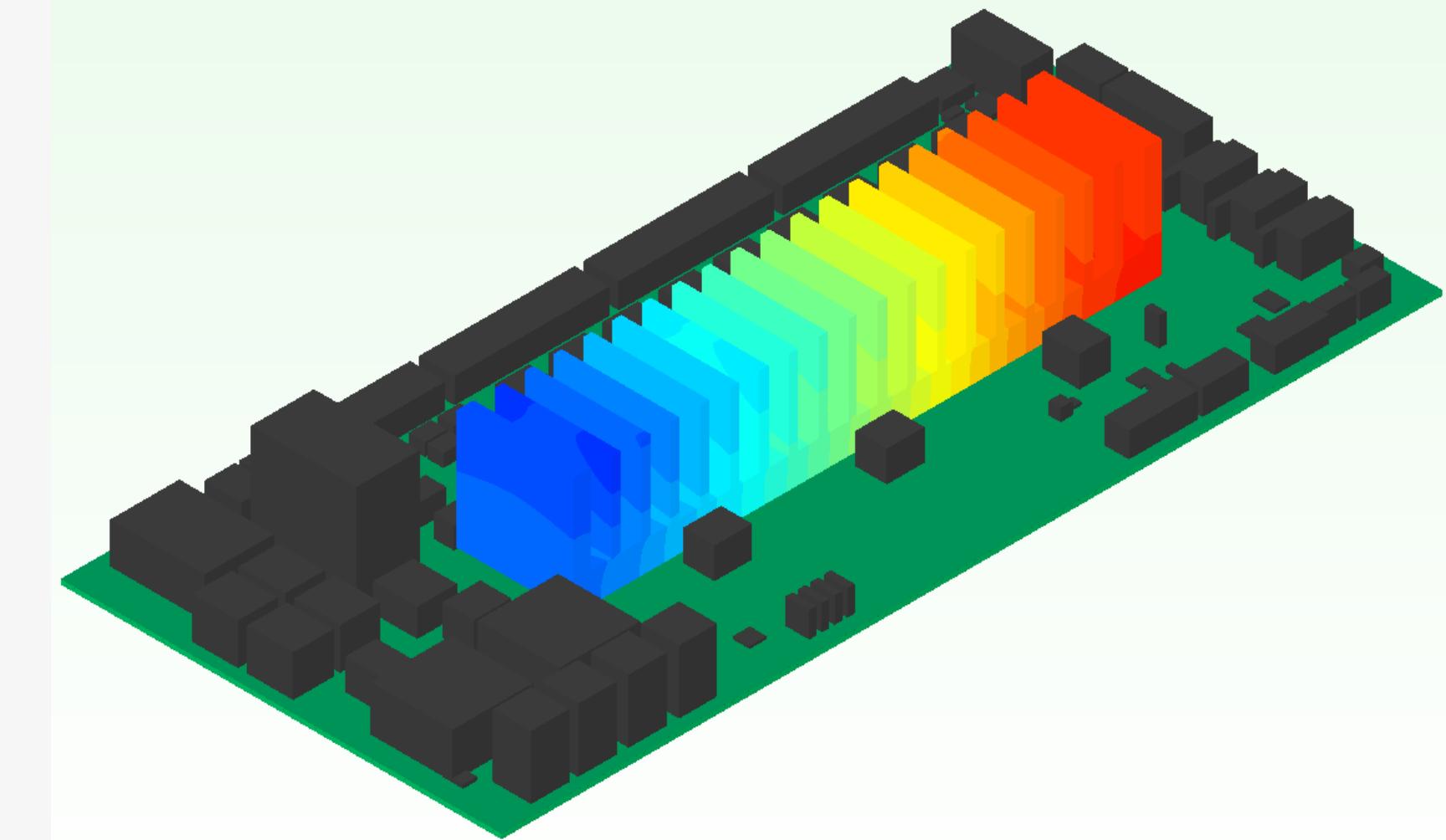




THERMAL ANALYSIS & SIMULATION

Key points

- System behavior analysis
- Thermal and flow simulation - CFD
- Optimization - Parameter sweep analysis
- Design Of eXperiment – case studies





```
reVal = LPI2C_MasterRepeatedStart(EXAMPLE_I2C_MAST
if (reVal != kStatus_Success)
{
    return -1;
}

reVal = LPI2C_MasterReceive(EXAMPLE_I2C_MAST
if (reVal != kStatus_Success)
{
    if (reVal == kStatus_LPI2C_Nak)
    {
        LPI2C_MasterStop(EXAMPLE_I2C_MAST
    }
    return -1;
}

reVal = LPI2C_MasterStop(EXAMPLE_I2C_MAST
if (reVal != kStatus_Success)
{
    return -1;
}

dfaRepFile = outfile("dfaClassRep.txt")
axlSetFindFilter(?enabled ~ ("NC"))
axlAddSelectAll()
listSymbols = nil
listSymbols = axlGetSelSet()
axlClearSelSet()
foreach( symbolID listSymbols
    symClass = symbolID->definition->symbolClass
    symPath = symbolID->definition->symbolPath

    if( symClass then
        fprintf(dfaRepFile "%s\\"
    else
        fprintf(dfaRepFile "%s\\"
    )
}
close(dfaRepFile)
```

SOFTWARE ENGINEERING

Key points

- SKILL – OrCAD X PCB and Allegro
- TCL/Tk – OrCAD X Capture
- Embedded software





LIBRARY SERVICES

Key points

- Schematic Symbols, Footprints and 3D
- Fast response
- IPC Standards
- CIS library management

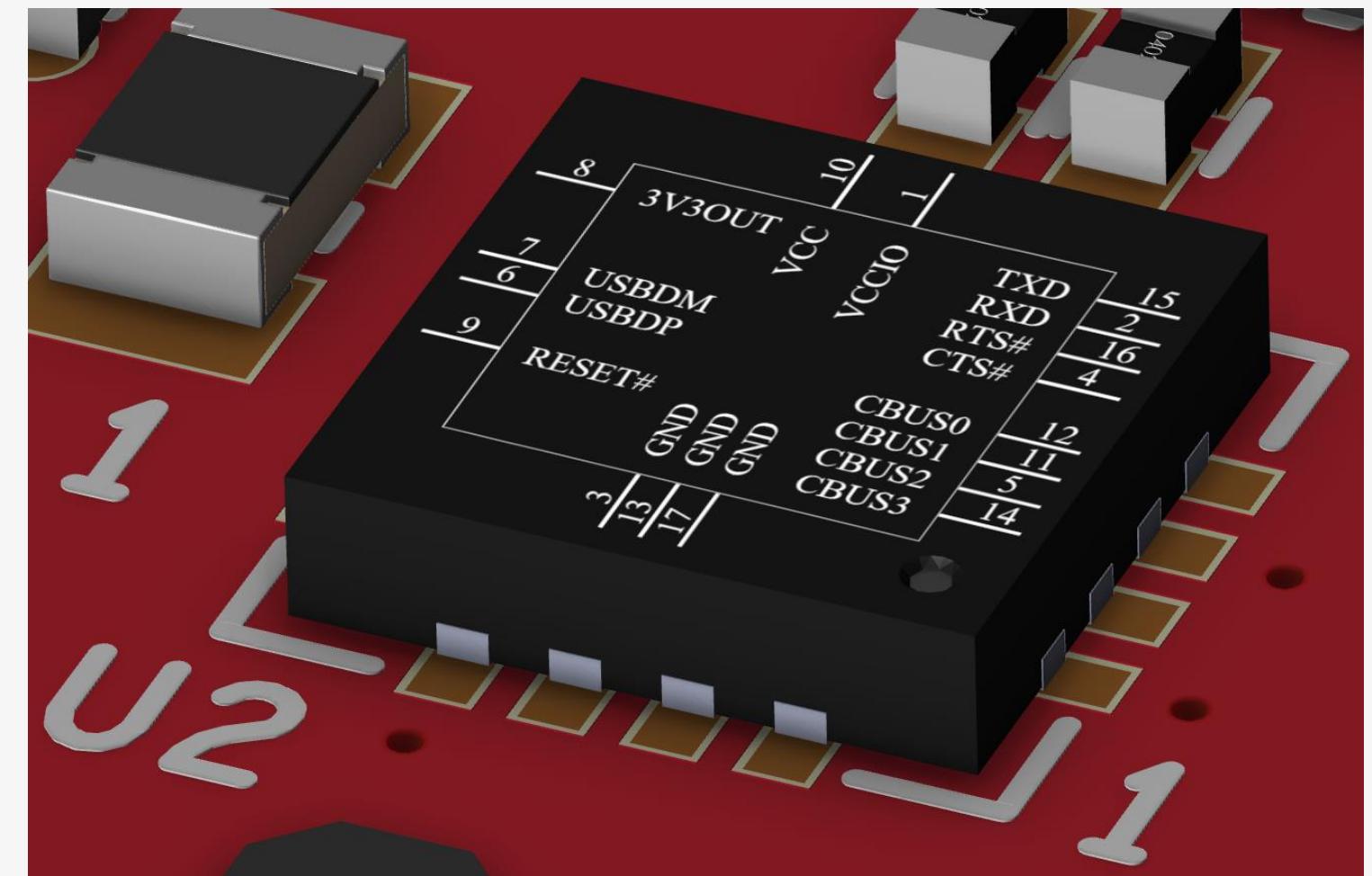
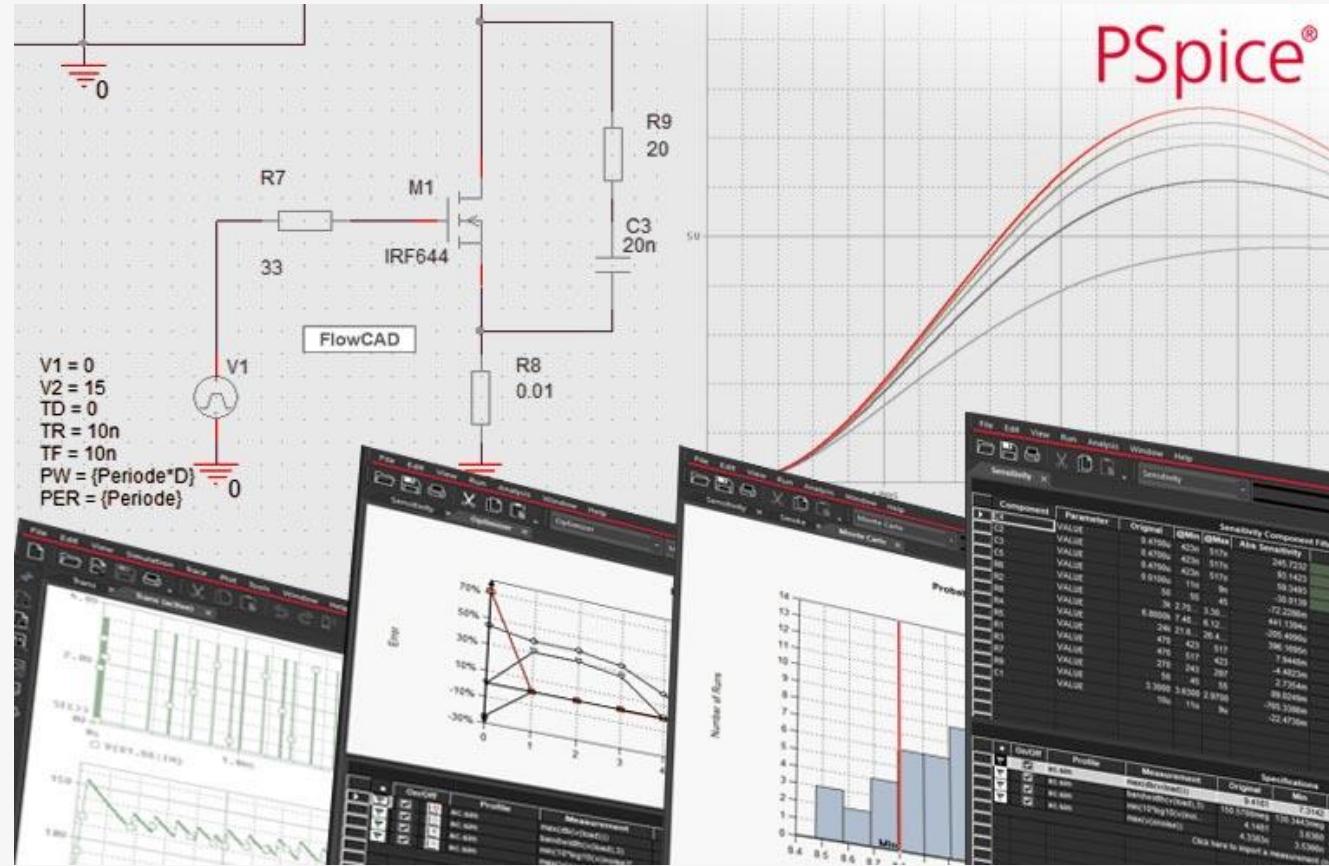


Table	Part Number	Part Type	Value	Description	Voltage	Tolerance	Schematic Part	PCB Footprint	Implementation	Manufacturer Part Number	Manufacturer	Distributor Part Number	Distributor	Price	Availability	Mechanical partno	A
1	Capacitor	ECE-A1HKS1	Electrolytic	3	CAP ELECT	0..50V		CAP	smdcap	C	ECE-A1HKS1	Panasonic - S P997-ND	Digi-Key	0.18	In Stock		
2	Capacitor	ECE-V1HA0R	Electrolytic	0.1uF	CAP..1uF	50..50V		CAP	smdcap	C	ECE-V1HA0R	Panasonic - S PCE3076TR-N	Digi-Key	0.1	In Stock	http://www.digikey.com	
3	Capacitor	ECE-V1HA0R	Electrolytic	0.1uF	0.1uF/50V	S	50V	CAP	smdcap	C	ECE-V1HA0R	Panasonic - S PCE2018TR-N	Digi-Key	0.12	In Stock	http://www.digikey.com	
4	Capacitor	ECE-B1HGE0	Electrolytic	0.1uF	CAP 50V 1u	50V		CAP	smdcap	C	ECE-B1HGE0	Panasonic - S P5461-ND	Digi-Key	0.5	In Stock	http://www.digikey.com	
5	Capacitor	ECE-A50ZR1	Electrolytic	0.1uF	.1uFD @	50V 50V		CAP	smdcap	C	ECE-A50ZR1	Panasonic - S P6638-ND	Digi-Key	0.18	In Stock	http://www.digikey.com	
6	Capacitor	ECE-A1HKS0	Electrolytic	0.1uF	CAP ELECT	.150V		CAP	smdcap	C	ECE-A1HKS0	Panasonic - S P984-ND	Digi-Key	0.16	In Stock	http://www.digikey.com	
7	Capacitor	ECE-A1HKK0	Electrolytic	0.1uF	CAP ELECT	.150V		CAP	smdcap	C	ECE-A1HKK0	Panasonic - S P985-ND	Digi-Key	0.21	In Stock	http://www.digikey.com	
8	Capacitor	ECE-A1HKG0	Electrolytic	0.1uF	KG RAD ALU	50V		CAP	smdcap	C	ECE-A1HKG0	Panasonic - S P925-ND	Digi-Key	0.21	In Stock	http://www.digikey.com	
9	Capacitor	ECE-A1HKA0	Electrolytic	0.1uF	0.1uF 50V MI	50V		CAP	smdcap	C	ECE-A1HKA0	Panasonic - S P820-ND	Digi-Key	0.12	In Stock	http://www.digikey.com	
10	Capacitor	ECE-A1HGE0	Electrolytic	0.1uF	NHE RADIAL	50V		CAP	smdcap	C	ECE-A1HGE0	Panasonic - S P5264-ND	Digi-Key	0.22	In Stock	http://www.digikey.com	

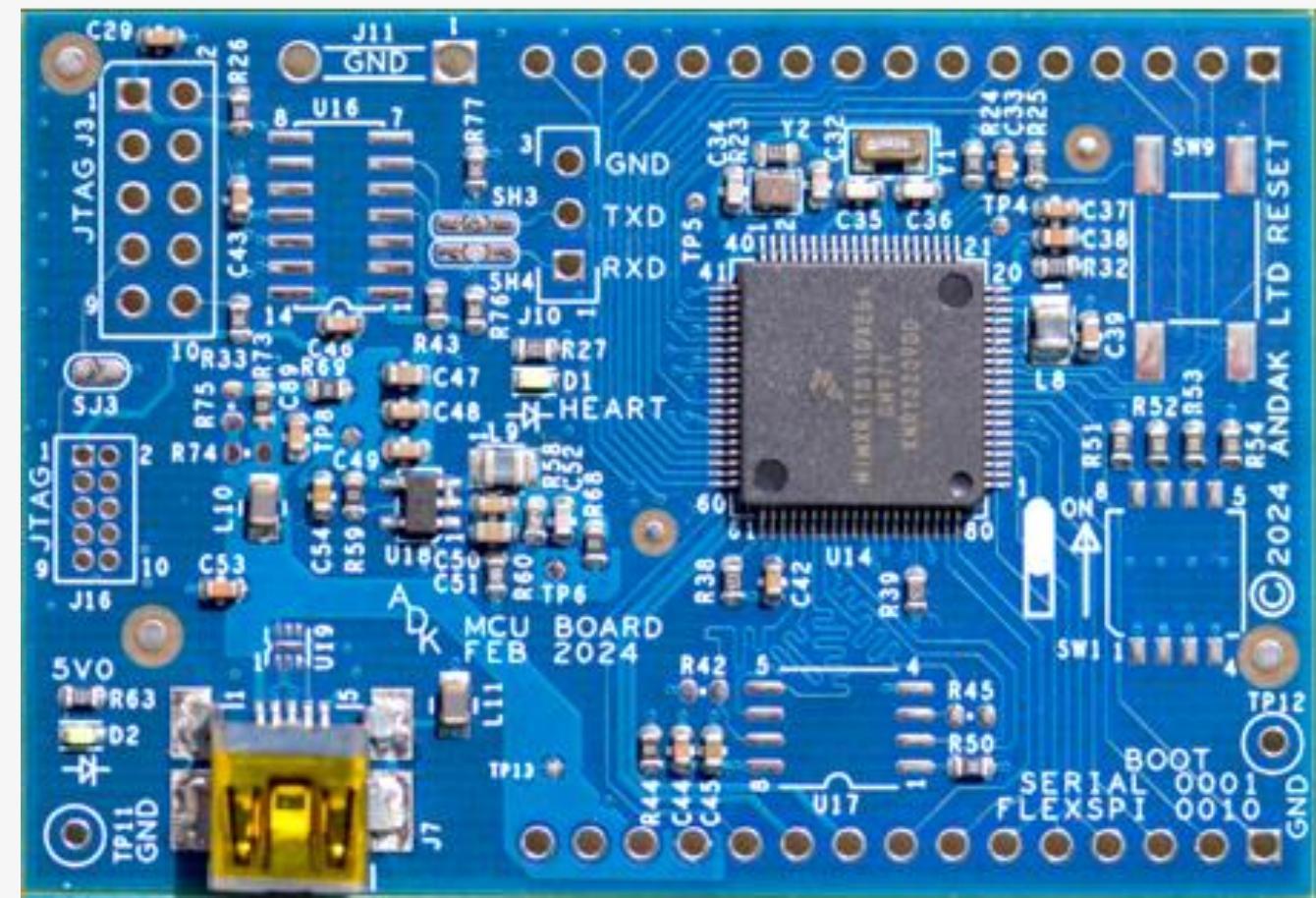


Contact



We're looking for
customers

For an offer, contact us:
office@andak.ro



For more details, visit us:
<https://andak.ro/>

