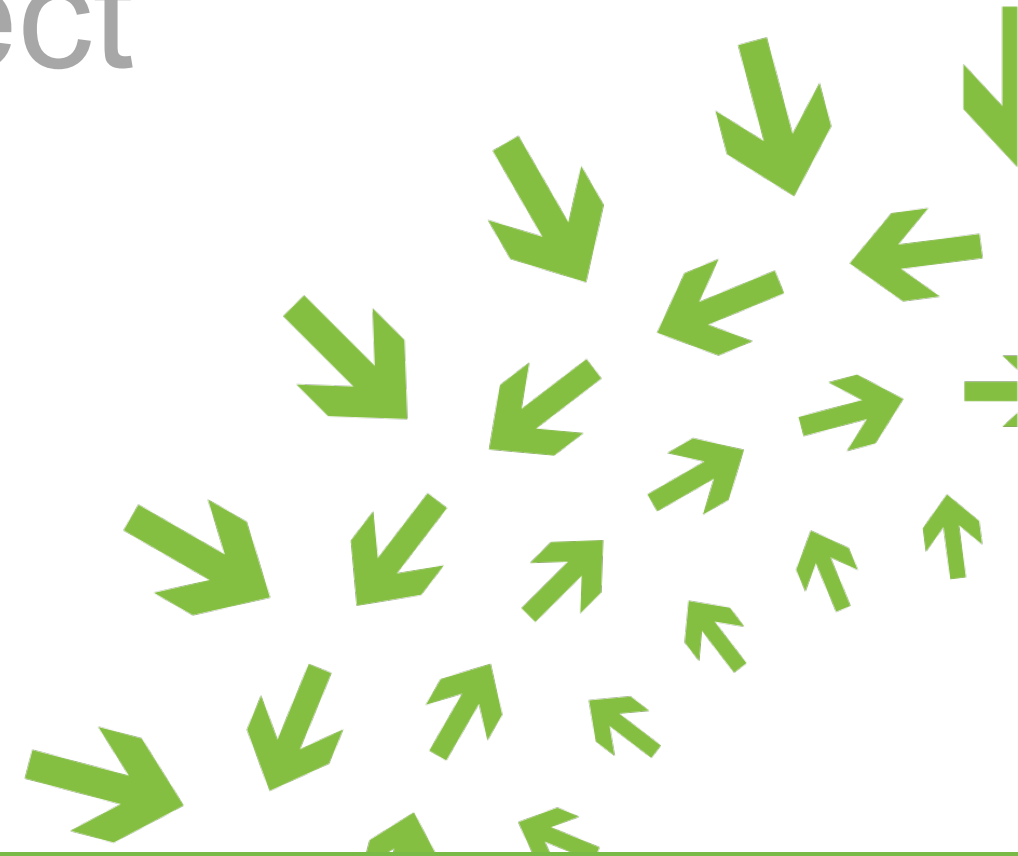




**OPEN**  
Compute Project

# Data Center Project

**Jason Schafer**  
Data Center Project Lead



# Hello

my name is



## Jason Schafer

Data Center Project Lead

 @mrdatacenter

# The History of the Data Center Group







# The Other Side of the Data Center Coin









# Data Center Operations Maturity Model

Environmental Health and Safety



Emergency Preparedness and Response



Maintenance Management



Site Management



Operations Management



Change Management



Quality Management





# Orchestration







**OPEN**  
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Cole Crawford





# Data Center

## Open Data Center Runtime Environment





# Open DCRE

- What it is:

A community based runtime environment for your data center which includes:

- . Control board that speaks to any single board computer (SBC).
- . Power line Communication interface to OCP Bus Bar
- . Power board enhancement inside OCP MB's to enable PLC comms
- . Bus bar mounted PLC sensor hub with firmware
- . IPMP / OCP daughter cards with firmware

- What it does:

Enables completely dissagregated OOB management network

Removes all external physical rj-45 / serial concentrators / BMC's from the rack, the switch, and the server

Provided a standard interface for rack level management

Exposes a robust Linux OS for customized offerings including north and south-bound interfaces



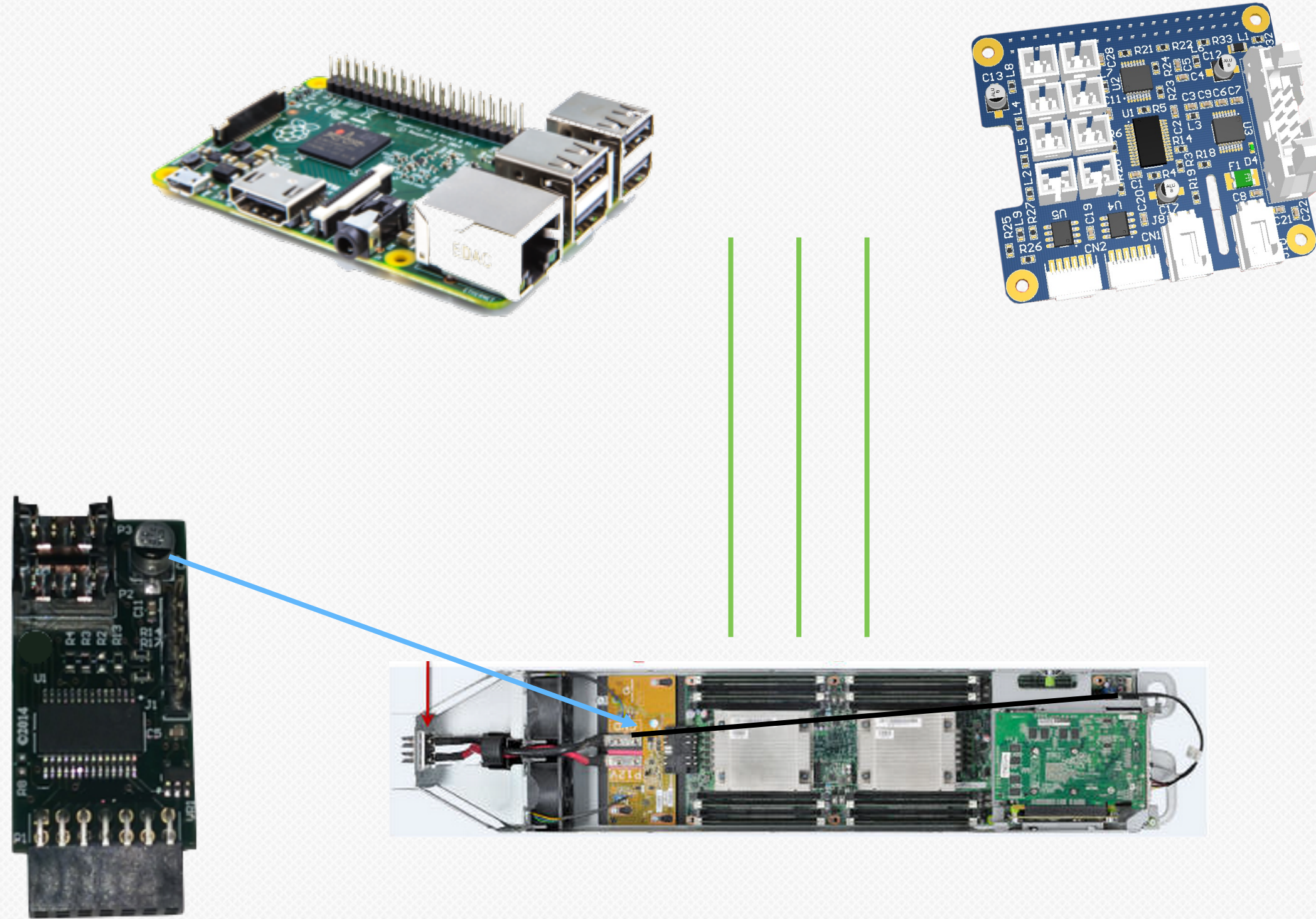
# Open DCRE

- What it enables:
  - . Standard BMC functionality including:
    - . IPMP
      - . remote power on
      - . remote power off
      - . remote power cycle
      - . console over serial
    - . OCP
      - . remote hard reset
      - . console over serial (local not lan)
      - . POST error codes
      - . Buffers boot codes





# Open DCRE - Architecture



# Summary

WE WANT YOU!



**Wiki:**

[http://www.opencompute.org/wiki/Data\\_Center](http://www.opencompute.org/wiki/Data_Center)





# Thank You!