Angela Petrov

ELECTRICAL ENGINEERING MANAGER

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SUMMARY

Electrical engineering manager with 14 years in hardware development, the last 5 leading teams that own analog and digital circuit design for scientific instruments. Manages 12 engineers and technicians, the hardware roadmap and a $2.4M budget, and runs project management and planning from requirements to production release.

SKILLS

- Analog and Digital Circuit Design
- Electrical Design
- Project Management
- Planning
- Oscilloscopes
- AutoCAD
- Microsoft Office
- Electrical Engineering
- Leadership
- Communication Skills

EXPERIENCE

Electrical Engineering Manager 06/2021 - Present

Flatirons Scientific Instruments Boulder, CO

Maker of spectrometers and lab analyzers for research and pharma labs.

- Manage **12** electrical engineers and technicians across board design, test and sustaining work.
- Own electrical design for 4 instrument platforms, signing off schematics, layouts and design reviews.
- Plan the hardware roadmap and a $2.4M yearly budget with product and operations leaders.
- Cut late design changes by 40% after adding a requirements checklist to project planning.

Senior Electrical Engineer 08/2016 - 05/2021

Front Range Analytics Longmont, CO

Developer of gas analyzers for environmental monitoring.

- Led analog and digital circuit design for a detector board used in 3,000 field analyzers.
- Characterized low-noise amplifiers with oscilloscopes and spectrum analyzers, lowering noise floor by 6 dB.
- Coordinated 2 contract manufacturers through production launch and first-article checks.
- Reviewed enclosure and cable drawings in AutoCAD with the mechanical team.

Electrical Engineer 06/2012 - 07/2016

Rocky Mountain Test Systems Denver, CO

Builder of test and measurement equipment.

- Designed data acquisition boards and power supplies for 5 test systems.
- Wrote test reports in Microsoft Office and trained customers at handover.
- Debugged noisy measurement channels with oscilloscopes, raising data quality on 200 channels.
- Ran thermal and EMC pre-scans on 3 systems before outside lab testing.

EDUCATION

Master of Science 05/2012

University of Colorado Boulder Boulder, CO

Electrical Engineering

CERTIFICATES

Project Management Professional (PMP)

Project Management Institute

10/2020