



## QUICK FACTS

PDA provides extensive experience and capabilities in all phases of product development as a virtual extension of your engineering department or as an independent contractor. Our goal is to provide flexible and innovative cost effective solutions for your product development needs.

### Business Information

#### Contact Information

Product Development Associates,  
Inc, (PDA)

1145 East Cliff Road  
Burnsville, MN 55337

Phone: 952-895-5153

Fax: 952-895-1762

**Founded:** 1994

**Employs:** Staff of 60 technical  
Employees supported by a cadre  
of key subcontractors

**Facility:** 23,000 square feet with  
design, rapid prototype, and low  
rate initial production capabilities

#### Business classification

- Certified as a Small Business  
primary NAICS codes: 541330,  
& 334111
- DoD Approved Contractor
- ITAR Registration
- ISO 9001:2015 Certified

**Cage Code:** 3A8D3

**EIN:** 41-1791080

**State Tax ID:** 1816478

**D&B:** 035579502

#### Management Team

##### Anthony Pascuzzi

President/Marketing

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##### Robert Jablonski

Vice President

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##### Jan Raycraft

Business Development

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Product Development Associates

[www.pda-engineering.com](http://www.pda-engineering.com)

### Core Competencies

Electrical, Mechanical, and  
Software design, analysis and  
Management of products/  
equipment with challenging  
Requirements and harsh  
environments: design-to-cost,  
Market price focus

### Services Provided

PDA provides product  
Development design and  
Support services which include:

- Project Management
- System Engineering to define  
requirements and propose  
solutions
- Hardware design: Mechanical;  
Electrical; Power; and Software  
design
- Design Analysis: structural;  
thermal; and circuit analysis
- Technical Data Package
- Hardware integration/test
- Subcontractor management
- Prototype and low scale  
production
- Qualification Management and  
test (MIL, IEEE, others)
- Continuation engineering
- Customer Support
- Provisioning and technical  
documentation
- Field engineering for  
installation support
- Maintain specialized  
engineering capabilities

### Design Tools

- Electrical design: Altium  
Designer; Solidworks Electrical
- Mechanical Design: Pro-E;  
Solid Works; AutoCAD

- Electrical Analysis: Simetrix
- Mechanical/Thermal Analysis:  
Mechanical; Nastran
- Configuration Control:  
Interlink; PDM; Windchill; and  
our custom PLM system

### Key Markets

PDA has extensive experience in  
addressing customer needs in  
the following areas:

- Military/rugged applications  
that integrate both COTS  
and unique electronic  
designs into equipment and  
enclosures
- Custom power systems and  
unique electronic  
assemblies harsh  
environments
- High performance unique  
complex mechanisms and  
automated control

### Key Discriminators

- Highly experienced staff  
that quickly understands  
requirements and provides  
effective solutions
- Over 20 years of proven  
business performance
- Network of proven key  
subcontractors to augment  
staff capability
- Ownership focused on the  
customer requirements,  
satisfaction, and cost
- Systems are optimized to fit  
the project needs
- Low overhead and efficient  
staff and tools to minimize  
cost

July 20, 2017

## Sample Projects:



### Naval Workstations: Command and Decision Console

PDA develops a console by first defining concept and requirements for the enclosure to ensure proper fit into the system and ergonomics for the operator. PDA then performs the detailed design to properly mount, connect, and protect the COTS components to ensure the console meets performance and environmental requirements. Complete technical data packages, test procedures, and equipment are developed for production. To ensure fleet supportability PDA's integrated logistic support team concurrently develops reliability and safety evaluations, and required documentation so for in-service support



### Electronics Module: Tactical Communications and Audio Subsystem (TCAS)

PDA provided the system, mechanical, electrical, & software engineering efforts to develop this custom electronics module. The activities also included developing custom circuit card, integrating the module into VA class submarine Integrate Communication System (ICS), and testing to support environmental qualification. PDA currently produces this product, maintains a depot, and supports our customer as they transition ICS.



### Reverse Engineering: Prototype Helicopter

PDA digitized a full scale operational helicopter model of to produce scale models for wind tunnel testing in order to improve aero dynamic performance, and developed procedures and conducted testing on unique portions of the design. PDA also redesigned engine mounting and rotor control mechanisms for preliminary flight tests.



### Industrial Automation: Food Processing

PDA developed a machine and controls to automatically caramelize coat apples. The processes include picking up the apples, dipping them in caramel, spin off the excess caramel, maintain the caramel level and temperature in the dip tank, and then cooling the dipped apples so they can be wrapped. The machine reduced the processing time from 3 days to 1 day.