Product Development Questionnaire

The following questionnaire features the type of questions our engineers will ask new or prospective clients about their product. Typically, there is a kickoff meeting at the start of the project and the client will write a statement of work (SOW) to address these topics. Some of these questions will be asked directly, while others will be gleaned from the general description and application(s) of the product. This questionnaire was created to help clients think about the information they need to share with our engineers. It's important to provide Pro-Omni with as much information as possible in order to ensure a smooth and effective partnership. Some of this information is proprietary, so Pro-Omni recommends that a non-disclosure agreement (NDA) be in place before the client shares these details. **View a sample NDA on our website here.**

1. **Provide a general description of the product.**

2. **Provide details about the application of the product.**

3. **What is the target market for this product (i.e. aerospace/defense, scientific/medical, semiconductor, consumer product, other)?**

4. **What problems does this product solve for your prospective customers?**

5. **What are customers' needs and preferences concerning the product?**

6. **What stage of development is the product in, and what phase (or phases) do you need help from Pro-Omni (i.e. inception, preliminary design, detail design, prototype, DVT, early production support, full production support)?**

7. **Do you have a project schedule? What and when are the major milestones?**

8. **What is the estimated budget for engineering support on the project?**

9. **What are the technical specifications and constraints of the product?**

10. **Do you want to further develop the existing product or create a new version?**

11. **Where is your company located, and how large is it?**

12. **Will the Pro-Omni engineers work on site, remote or a hybrid of both?**

13. **What is your role/title at the company, and will you be the person that the Pro-Omni engineers report to?**

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14. What other engineers and staff members will the Pro-Omni engineers be working with?

15. Are aesthetics important for this product? In other words, do you need an industrial designer to create a stylish exterior for the product?

16. Are there any material or component requirements or restrictions?

17. What is the expected cost and sale price of the product in the prototype, early production and full production phases?

18. What are the size, weight, volume and electrical power requirements of the product?

19. Do you have any design software preferences (i.e. CAD software for mechanical design, PCB design and layout software for electrical design, user interface software for the software architecture, etc.)?

20. If there are electronics, will they be built around a microprocessor or an FPGA? What is the brand and part number of the microprocessor or FPGA? If the product is in the inception phase, please consult with the Pro-Omni electrical engineers before making this decision.

21. If there are optics in the product, will they be for visible light, infrared and/or UV?

22. If there are moving parts in the product, what are the motion specs (i.e. positional accuracy, speed, acceleration, cycle time etc.)?

23. Are interlocks needed on the product to ensure product and user safety? If so, please provide details.

24. What operation and storage/shipping conditions will the product encounter (i.e. temperature extremes, humidity, vibration, shock loads, rain exposure, wind and dust exposure, etc.)?

25. How and where will the product be manufactured (i.e. manually, automated, in-house, contract manufacturer)? Are there any preferred manufacturing processes?

26. How will the product be packaged, labeled and shipped to customers?

27. What are the regulatory and compliance requirements for the product (i.e. MIL-STD-810 for Military products, 510(k) FDA compliance or CE Mark for medical devices, etc.)?

28. Do you have any other product development partners at the moment?

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