PREFACE

Technical development with the essence clarified

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Microcomputer fully began being adopted in engine control when I joined the company. The capability of on-board microcomputer was 8bit/ ROM:4kbyte/RAM:192byte/Clock:1MHz at that time, and microcomputer was rarely used besides the engine control. The processing capacity of a microcomputer for the engine control has increased thousandfold, and almost all of automobile functions and performance have been dramatically improved by electronics for over 35 years since then. Needless to say, electronics system itself has also been expanded, complicated, and much faster.

Without the power of electronics, revolution once in 100 years or definition change of cars to own, drive, transport and assert oneself would not happen. Electronics has overwhelmingly expanded the role, position, and significance of existence to be a main part to create new added value beyond the means for improving the automobile function and performance.

On the other hand, the concrete necessary functions have been described less than before, which means that it doesn't make them completely clear to our customers such as automotive manufactures and end users. We have to decide what we will implement first for the future technical development and then think about how to implement it.

In addition, electronics technology applied to automobile continues to expand. Accordingly, there have been some events such as entry of new companies, globalization, business model change, and development process change.

As the result, "future prediction has become difficult," "the competition has become fierce," and "everything has not been solved or completed only by technology." On the other hand, technology in the other region might suddenly emerge and surpass or replace the conventional automotive electronics

technology with making it nonsense.

Clarifying the essence and having a sense of purpose calmly without being confused by words such as "connected," "autonomous driving," "electrification," "AI," and "big data" will become even more important than in the past when we efficiently proceed with truly useful technical development under such circumstances. This approach results in the positioning of your own development, the clarity of purpose, and the development without deviation.

Furthermore, humanity to unify many engineers, insight of foreseeing the future, and product planning capabilities based on technology to meet customer demand - to say nothing of technological capabilities - are required for the coming technical development more than ever before.

As well as counting on and training our engineers of Ten group who have passion to overcome all difficulties and high level of technological capabilities based on the wider vision, I'd like to strive to carry out further product development bringing great changes that occur once in 100 years by unifying those members from many departments.

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