



# ECU flashing




## A turn-key solution for outdated inventory

Our six sigma capable process, responsible for updating millions of units

### The background

BMW, a leading manufacturer of premium automobiles, had thousands of obsolete electronic control units requiring updates. They needed a turn-key solution to perform flashing services and reduce their outdated ECU inventory — and they needed it fast. They sought a familiar partner they could trust to rapidly design, develop, and deploy a solution.

### Project goals

-  Manage and track obsolete inventory to ensure process quality and stability
-  Update all obsolete ECUs
-  Provide cost savings while ensuring 100% quality of flashed parts

[AlloyGroupUSA.com](http://AlloyGroupUSA.com)

### Our client



**Industry:**  
Automotive  
manufacturing



**Employee  
headcount:**  
10,000+



**Site location:**  
South Carolina

## Our solution

To realize actual cost savings, Alloy Group needed to design and develop an end-to-end program to identify, manage, and track obsolete inventory to ensure process quality and stability. Our team of Technical Program Managers, Technical Support Specialists, and subject matter experts were able to create a comprehensive solution for their flashing needs. After finalizing our plans, the Alloy Group deployed immediately to BMW's facility location in Greer, South Carolina. By using a rapid development model, our prototype was validated and went live within three months. This program has served as the foundation of BMW's flashing program to this day.

Our full-time onsite lead trained a temporary workforce to run BMW's outsourced program for three years.



Designed new prototype with our team of subject matter experts



Created a new foundational flashing program



Led and trained a temporary workforce

## The results



Designed, prototyped, and deployed a six sigma capable process



BMW had immediate, direct dollar cost savings of more than \$4 million.



We successfully reprogrammed over 65,000 outdated components.



Our solution continues to serve as the foundation for BMW's flashing program today.

