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Control Software for AO instruments: similarities and differences among INAF-OAPd projects.

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At INAF OAPd we participate in more than one project for ground based astronomical instrumentation. In particular, we have the responsibility for the Control Software work-package of ERIS and MAVIS for ESO's VLT, SHARK-NIR for LBT and MAORY for ESO's ELT. All these instruments include its own adaptive optics module and/or use the AO facilities provided by the hosting observatory. MAORY probably represents the extreme case being a huge AO module and not a scientific instrument. All these projects are at different development phases: ERIS commissioning is ongoing in these months, SHARK-NIR terminated the integration and just passed the acceptance in Europe, MAORY had the preliminary design review last year and MAVIS's one is scheduled by the end of this year.

All these projects use Control Software based on different technologies. In this paper we first give an overview of the projects, we present the current status of the control SW, show the similarities of the SW architectures and the main differences in the AO. Finally we highlight the main difficulties and challenges we encountered so far.

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