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I got an opportunity to do a research intern at Division of Water Resources Engineering, LTH from March. The research that I have done was to use Interferometric synthetic aperture radar (InSAR) technique to monitor the ground information. The purpose of the internship is to monitor time-series ground deformation at a basin in northwestern Iran by using InSAR data and have some insight into scientific work and techniques related to remote sensing. And thanks to my supervisor, Hossein Hashemi, who helped me in this research.

During the three and a half months, I first requested historical satellite data from ESA and gathered methods of analyzing ground deformation using the InSAR technique. I learned computer science about Bash language on the Linux system for preparing the extraction and analysis of ground information. Learning theory of GMTSAR which is a software to process InSAR data was also one of my learning tasks in this internship. Independently developing and updating shell scripts to extract the data information was carried out after getting a deeper insight into InSAR, Bash language, and the software.

This internship gave me an opportunity to review the knowledge that I have learned from previous years. The work also brought me a chance to improve my programming skills especially in the field of remote sensing. I also gathered knowledge about different applications of remote sensing.