

Work sampling for the production development: A case study of a supplier in European automotive industry

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ABSTRACT

Effective development of production processes within modern engineering projects requires project management to take into consideration the socio-technical project aspects, such as insights into individual and team work, including how much time team members spend on different activities, how they communicate, within what context and in what manner. The paper reports on a self-reporting work sampling approach developed and tailored for the production development and the application of the approach in an automotive industry supplier company. A case study was conducted in a Tier 1 development and manufacturing supplier for the automotive industry in EU. Although the approach requires a significant amount of preparation efforts to configure the tools and reduce participants self-reporting bias, it is less intrusive during data collection as it does not require the presence of researchers. Results provide insights into team members' work type engagement and how their activity was coupled with the context, the manner and the nature of information transaction utilized. Project managers can use these insights to tailor workloads and modify team composition to improve collaboration, coordination and information exchange.

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Vzorčenje dela za razvoj proizvodnje: študija primera dobavitelja v evropski avtomobilski industriji

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POVZETEK

Učinkovit razvoj proizvodnih procesov v sodobnih inženirskih projektih zahteva, da vodstvo projektov upošteva družbeno-tehnične aspekte projekta, kot so vpogled v individualno in skupinsko delo, vključno s tem, koliko časa člani ekipe porabijo za različne dejavnosti, kako komunicirajo, v katerem kontekstu in na kakšen način. Prispevek poroča o pristopu samostojnega poročanja o vzorčenju dela, ki je bil razvit in prilagojen razvoju proizvodnje ter uporabi v podjetju, dobavitelju avtomobilске industrije. Študija primera je bila izvedena v razvojnem in proizvodnem podjetju, dobavitelju prvega reda za avtomobilsko industrijo v EU. Čeprav pristop zahteva večjo prizadevnost za pripravo orodij in zmanjšanje pristranskosti poročanja udeležencev, je med zbiranjem podatkov manj vsiljiv, saj ne zahteva prisotnosti raziskovalcev. Rezultati zagotavljajo vpogled v sodelovanje članov ekipe, kako je njihova dejavnost vključena v skupni kontekst ter način in naravo uporabljene informacijske transakcije. Vodje projektov lahko uporabijo te vpoglede za prilagoditev delovne obremenitve in spreminjanje sestave ekipe za izboljšanje sodelovanja, koordinacijo in izmenjavo informacij.

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PODATKI O ČLANKU

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