

Appendix A:

Date of Search: August 31, 2018

Database	Search String	Notes- Limits Applied	Number of Results
ERIC	(Competenc* OR abilit* OR skill* OR expertise OR attitude*) AND (college student* OR undergraduate student* OR undergraduate stud*) AND (engineer) AND success*	Language: English January 2000- August 2018 Check: Peer reviewed Education Level Select Higher Education Select: Journal Article After Search, additional constraints on left hand side: Source Types: Academic Journals Manually Filter Out Location Identifier: Non-United States	201

Scopus	<p>TITLE-ABS-KEY ((competency OR characteristic OR knowledge OR skill OR ability OR attitude) AND (college OR undergraduate AND student OR higher AND education) AND engineer AND success) AND PUBYEAR > 1999 AND (LIMIT-TO (SRCTYPE , "p ") OR LIMIT-TO (SRCTYPE , " j ")) AND (LIMIT-TO (AFFILCOUNTRY , "United States ")) AND (LIMIT-TO (DOCTYPE , "cp ") OR LIMIT-TO (DOCTYPE " ar ") OR LIMIT-TO (DOCTYPE , " ip ")) AND (LIMIT-TO (SUBJAREA , "ENGI ") OR LIMIT-TO (SUBJAREA , " COMP ") OR LIMIT-TO (SUBJAREA , " CENG ")) AND (LIMIT-TO (LANGUAGE , "English "))</p>	<p>2000-Present, Document Type: ALL Access Type: ALL. After searching, left hand detailed: Subject area: 1. Engineering 2. Chemical Engineering 3. Computer Science Document Type: Conference Paper, Article, article in press Country: United States Source Type: 1. Conference Proceedings 2. Journals Language: English</p>	197
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<p>Ei Compendex</p>	<p>found in Compendex for 2000-2018: ((((((((Competency OR Characteristic OR knowledge OR Skill OR ability OR attitude)) WN KY) AND ((students) WN KY)) AND ((Engineering OR Engineering Education) WN KY)) AND ((SUCCESS) WN KY) AND ((College OR Undergraduate OR Higher Education) WN KY)) AND (English WN LA)) AND ({united states} WN CO)) AND ({901.2} WN CL)) AND (({students} OR {engineering education} OR {education computing} OR {surveys} OR {engineering research} OR {engineers} OR {education} OR {design} OR {software engineering} OR {biomedical engineering} OR {motivation} OR {computer science} OR {mechanical engineering} OR {electrical engineering} OR {systems engineering})) WN CV)) NOT (({china} OR {united kingdom} OR {canada} OR</p>	<p>Subject- Title- Abstract for all Language: English Autostemming: On Autosuggest on Date: 2000-2018 After searching, left hand detailed: Country: United States Classification code: Education</p>	<p>254</p>
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	<p>{germany} OR {australia} OR {japan} OR {turkey} OR {korea, republic of} OR {india} OR {mexico} OR {brazil} OR {colombia} OR {israel} OR {singapore} OR {puerto rico} OR {united arab emirates} OR {spain} OR {romania} OR {new zealand} OR {thailand} OR {taiwan} OR {ireland} OR {switzerland} OR {portugal} OR {chile} OR {south africa} OR {italy} OR {peru} OR {france} OR {austria} OR {greece} OR {malaysia} OR {cambodia} OR {ghana} OR {finland} OR {ukraine} OR {russia} OR {nigeria} OR {norway} OR {pakistan} OR {paraguay} OR {belgium} OR {botswana} OR {bulgaria} OR {cayman islands} OR {macedonia} OR {nepal} OR {netherlands} OR {poland} OR {palestine} OR {hong kong} OR {latvia} OR {qatar} OR {kazakhstan} OR {lithuania} OR {jordan} OR {saudi arabia}) WN CO))</p>		
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Professional Development Collection	(Competenc* OR abilit* OR skill* OR expertise OR attitude*) AND (college student* OR undergraduate student* OR undergraduate stud*) AND (engineer) AND success*	Peer Reviewed January 2000- August 2018	74
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