HACD: A New Model for Co-Designing Courses with Al

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The Goal (in winter 2021/2022):

Adapt the university's course design process into a more efficient model for corporate learning with shorter timelines.

HACD came from this effort.

H: Human Directed

A: Al Assisted

C: Course

D: Design

General Project Steps:

- 1. Outline current course design process (ideation, design, review, QA, course wrap).
- 2. R&D to vet tools and output.
- 3. R&D to build initial seed prompts and prompt library.
- 4. Experiment with offloading tasks to GenAl within process.
- 5. Build new ID process.

Outcomes:

- 1st HACD course built in late 2022
- Reduced process from 3-3.5 mos. to 1.5-2 mos.
- Process refined and in use today

What does it mean to co-design courses with Al?

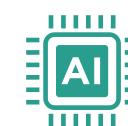
It's not about human replacement; it's about fusion and augmentation.

- Valuable Human Contributions:
- provide context and parameters, make judgements, maintain values, generate creativity, and make ethical decisions.
- Valuable AI Contributions:
- speed, pattern recognition, data processing, generating drafts or options, and automating routine tasks, inspiration/invitation to deep or higher-level thinking.

Course Ideation



Develops and approves course scope, description, learning objectives, and instructional needs; makes course request.



Can assist with initial course topics and outline drafts, LO refinement, automated course requesting, etc.

Quality Assurance



Conducts reviews and mock runs in LMS to provide feedback.



Can assist by providing ID or RP with a feedback summary suggesting critical, moderate, or suggested revisions.

Design & Development



- Reviews (or develops) content and associated course materials for a specified learning level and for objective alignment, course flow, accessibility, consistency, etc.
- Designs in LMS
- Creates or requests the creation of learning objects to support content
- Makes suggestions and provides feedback for SME/RP

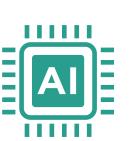


- Can assist by reviewing content along requested parameters (learning level, objective alignment, course flow, accessibility, consistency, etc)
- Can identify missing or unsupported content
- Can revise language as needed
- Can generate test questions, student feedback, and rubrics; builds multimedia scripts

SME/RP Review



Reviews content and design for accuracy.

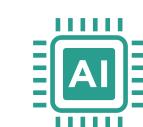


Can assist by providing feedback on readied content such as areas to focus, possible missing info, etc.

Course Finalization



Provides stakeholder feedback and approvals.



Can assist ID or RP with stakeholder communication, like creating high-level overviews or summaries upon request.

Benefits and Challenges

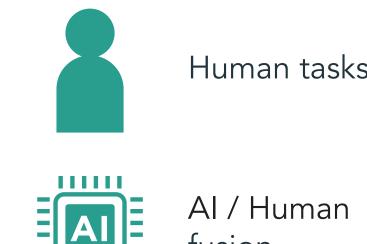
High Notes:

- Optimizes the strengths of those in the process.
- Leverages a wider scope of knowledge.
- Speeds up the process while allowing humans to time to judge and refine.

Low Notes:

- Relies heavily on evaluation and judgment of output; may need to train reviewers.
- Content development may require several iterative rounds.
- Agents or agentic Al may take the place of this process in the future.







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